Agriculture • Air Conditioning and Refrigeration • Art • Banking • Biology • Business Administration • TJC Chemistry • Computer Science • Criminal Justice • Dental Hygiene • TJC • Developmental Studies • Drafting Economics • Electronics • Engineering • English • TJC • Farm and Ranch Management • Fashion Merchandising TJC • Fire Protection Technology • Foreign Language • Government • History • Journalism • Mathematics Medical Laboratory Technician • Mid-Management • Mineral Land Management • Music • TJC • Nursing Nursing Home Administration • TJC • Office Occupations • Ophthalmic Technician and Dispensing Ornamental Horticulture • Petroleum Technology • Physical Education • Physics • Postal Management • TJC Psychology • Radiologic Technology • Real Estate Management • TJC • Recreation Leadership • Respiratory Therapy Sociology • Speech & Theater • Surveying • Vocational Nursing (LVN) • Welding • **TYLER JUNIOR COLLEGE**

TYLER JUNIOR COLLEGE

Catalog 1984-85

TYLER JUNIOR COLLEGE

Educational opportunities are offered without regard to age, race, color, national origin, religion, sex, marital status or physical handicap.

Tyler Junior College
1984 – 1985

Raymond M. Hawkins, Ph.D.
President, Tyler Junior College

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The Tyler Junior College Catalog is published yearly by the Office of Development and College Relations, Box 9020, Tyler, Texas 75711.

Calendar

Fall Semester 1984

August		
	20	General faculty meeting
	21-24	Registration for fall
	24	Last day to register without paying a late fee
	27	First day of classes Late registration
	30	Last day to change schedule Late registration ends
September		
	3	Labor Day holiday
October		
	1	Last day to apply for fall degree
	22	Mid-semester grades due
November		
	12	Early registration for spring semester begins
	22-25	Thanksgiving holidays (inclusive) Classes end at 5 p.m. November 21
	30	Last day to drop course with a grade of W
December		
	10	Beginning of final exams
	14	Last class day of fall semester

Spring Semester 1985

January		
	7	General faculty meeting
	8	Faculty and staff professional development day
	9-10	Registration
	10	Last day to register without paying late fee
	11	Faculty and staff professional development day
	14	First day of classes Late registration
	17	Last day to change schedule Late registration ends
March		
	1	Last day to apply for spring degree
	11	Mid-semester grades due
	18-22	Spring holidays (inclusive)
	25	Early registration for fall semester begins
April		
	5	Easter holiday
	26	Last day to drop a course with a grade of W
May		
	6	Beginning of final exams
	10	Last class day of spring semester
	14	Commencement

Summer Session I 1985

May		
	30	Registration for first term
June		
	3	Classes begin for first term (most classes meet Monday through Thursday)
	3-4	Late registration
July		
	3	Final exams for first term

Summer Session II 1985

July		
	8	Registration for second term
	9	Classes begin for second term (most classes meet Monday through Thursday)
	9-10	Late registration
August		
	1	Last day to apply for summer degree
	8	Final exams for second term

Some programs must vary these summer session schedules.

Class minutes will be increased to compensate for fewer days.

Where to Write or Call

Communication about specific aspects of the College may be addressed as follows:

Admissions:
New and former students
Dean of Admissions

Apache Band:
Director of Apache Band

Apache Belles:
Director of Apache Belles

Application:
Dean of Admissions

Arts and Sciences programs:
Dean of Arts and Sciences

Athletics, intercollegiate:
Director of Intercollegiate Athletics

Catalog:
Dean of Admissions

Clubs and organizations:
Coordinator of Student Activities

Continuing Education:
Associate Dean of Continuing Education

Financial aid and student employment:
Director of Financial Aid

Housing:
Housing Office

Nonscholastic affairs:
Associate Vice President and
Dean of Student Affairs

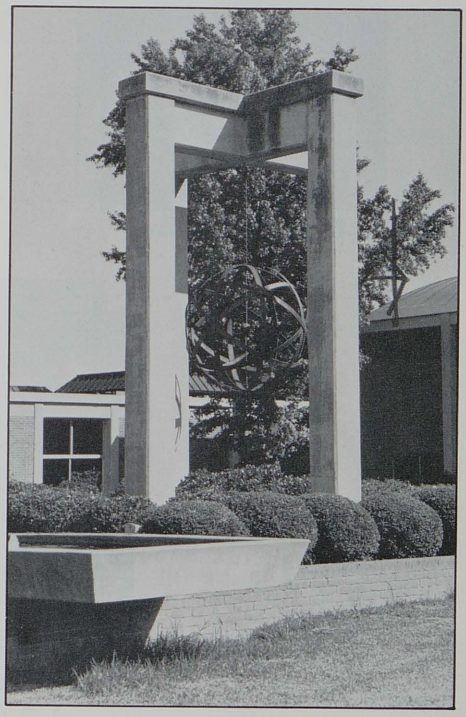
Scholarships:
Director of Financial Aid

Student records, official and unofficial transcripts:
Registrar

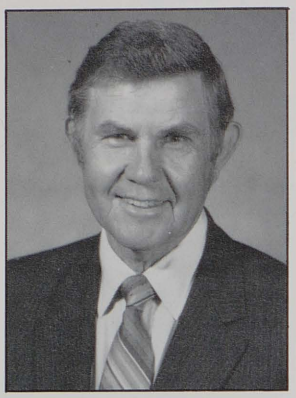
Technology programs:
Dean of Technology

Address all correspondence to:
Tyler Junior College
Box 9020
Tyler, Texas 75711

Telephone:
214/531-2200



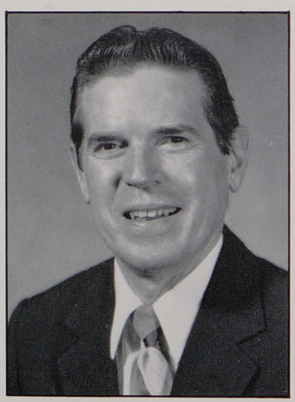
Board of Trustees



Dr. Eugene M. Allen

Earl C. Andrews

A. D. Clark, Jr.



James W. Fair

President
Dr. Patrick R. Thomas

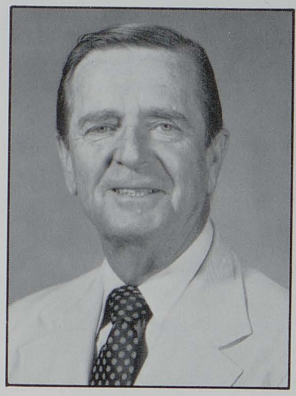
First Vice President
Dr. Jim M. Vaughn

Second Vice President
James W. Fair

Secretary
Maxene Robinson

Assistant Secretary
Ellen Price

Jack W. Flock



Harry Loftis

Dr. Edward M. Potter

Dr. Patrick R. Thomas

Dr. Jim M. Vaughn

History

The original Tyler Junior College was established in 1926 as a part of the Tyler Public School System. It operated under this plan with a small enrollment until September 1, 1946.

On November 13, 1945, the voters established a new, independent Tyler Junior College District, authorized a tax levy for the support of the College, and authorized a bond issue for the erection of a new College plant on its own campus separating it from the public school system on September 1, 1946.

Since then the Tyler Junior College District has been enlarged and extended by ten neighboring school districts which voted to become a part of the College District for junior college purposes only. The present Tyler Junior College District is now composed of the following districts:

Tyler Independent School District.
Winona Consolidated Rural High School District No. 67.
Chapel Hill Independent School District.
Lindale Independent School District.
*Rice Consolidated Common School District No. 13.
*Dixie Rural High School District No. 5.
*Swan Consolidated Common School District No. 60.
*Pine Springs Common School District No. 48.
*Flint Common School District No. 18
Van Independent School District.
Grand Saline Independent School District.

(*Consolidated into the Tyler Independent School District)

The College is operated under statutory authority by its Board of Trustees, composed of nine members.

Students residing in the Tyler Junior College District are entitled to priority in enrollment. Others are admitted if facilities are available, but the College reserves the right to limit the enrollment of students residing outside the Tyler Junior College District whenever in its judgment facilities are not available for additional students.

Statement of Purpose

The primary purpose of Tyler Junior College is to provide quality education at minimal cost to students varying in interests, aptitudes, talents, needs and goals. The College offers equal opportunity to all students meeting admissions requirements. Specific objectives include:

EDUCATIONAL

To provide two years of fully transferable college credit courses designed to develop logical, creative, and objective thinking, and to stimulate intellectual curiosity by exposing students to the various academic disciplines.

To provide two-year technical programs in order to prepare students to gain occupational competency as technical personnel in industry, business, government, or as owner-operators of their own establishments.

To provide two-year programs in paramedical and other health professions to train students to meet the needs for personnel in the health related services of the community.

To provide programs of vocational education for employed adults who need additional training or re-training in order to increase occupational competency.

CULTURAL

To cultivate the knowledge and appreciation of human achievements in the arts and sciences by providing convocations, by offering elective and adult education courses that stimulate interest in the arts, and by encouraging students to participate in cultural activities.

SOCIAL

To encourage the exercise of friendliness and other social virtues by providing opportunities for students to gather at conveniently located student lounges and by offering a well-planned, diversified program of extra-curricular activities, planned and implemented by both the student body and the faculty.

CIVIC

To encourage effective student government in order to create in each student an intelligent interest in the governmental processes, and to prepare him or her for responsible citizenship. The community is also encouraged to use the facilities of the College.

PHYSICAL

To provide programs of physical development and of competitive sports in order to encourage good habits of physical and mental health, and to stimulate interest in recreation and good sportsmanship.

Accrediting

Tyler Junior College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools. Membership in this accrediting association makes possible the transfer of credit for work done in Tyler Junior College to other accredited colleges and universities.

Since colleges differ in their curricula, a student should secure the catalog of the institution to which he or she intends to transfer credit. Courses for a student's first two years should be planned in accordance with the degree plan of the institution to which he or she will transfer.

Admission

All materials required for admission to Tyler Junior College should be on file in the admissions office prior to registration. New and readmit applicants whose file is incomplete at the time of registration will be allowed to enroll on conditional status pending completion of admission file. Readmit applicants will not be allowed to re-enroll if admission file was incomplete after the first semester of enrollment. NO STUDENT WILL BE PERMITTED TO RE-ENROLL UNTIL ADMISSION REQUIREMENTS HAVE BEEN MET. Students are encouraged to submit applications as early as possible in order to facilitate the early advisement process.

Admission to Tyler Junior College does not guarantee admission to a specific vocational-technical program.

Allied health programs are limited because of facilities, and admission to any of these programs requires separate application directly to that program well in advance of the fall semester. Programs which require separate application include dental hygiene, medical laboratory technology, nursing, radiologic technology, respiratory therapy, vocational nursing and ophthalmic dispensing technology.

RESPONSIBILITY RESTS UPON THE STUDENT APPLICANT FOR INSURING THAT ALL NECESSARY MATERIALS HAVE BEEN SUBMITTED FOR ADMISSION.

METHODS OF ADMISSION

Tyler Junior College gives equal consideration to all applicants for admission without regard to race, creed, color, sex, physical handicap or national origin.

1. Admission by Graduation From High School.

   Graduation from a standard high school with at least fifteen units of high school credit, including three units in English, is required. The elective units must be chosen from the list approved by the Texas Education Agency. Students must furnish a high school transcript, showing graduation date.

2. Admission by Examination (General Educational Development Test).

   Applicants whose high school class has graduated and who wish to enroll in Tyler Junior College may be considered. The applicant must present satisfactory scores on the GED test prior to admission.

3. Admission of Transfer Students.

   Students may be accepted on transfer from other regionally accredited colleges and universities when eligible to return to their former institutions.

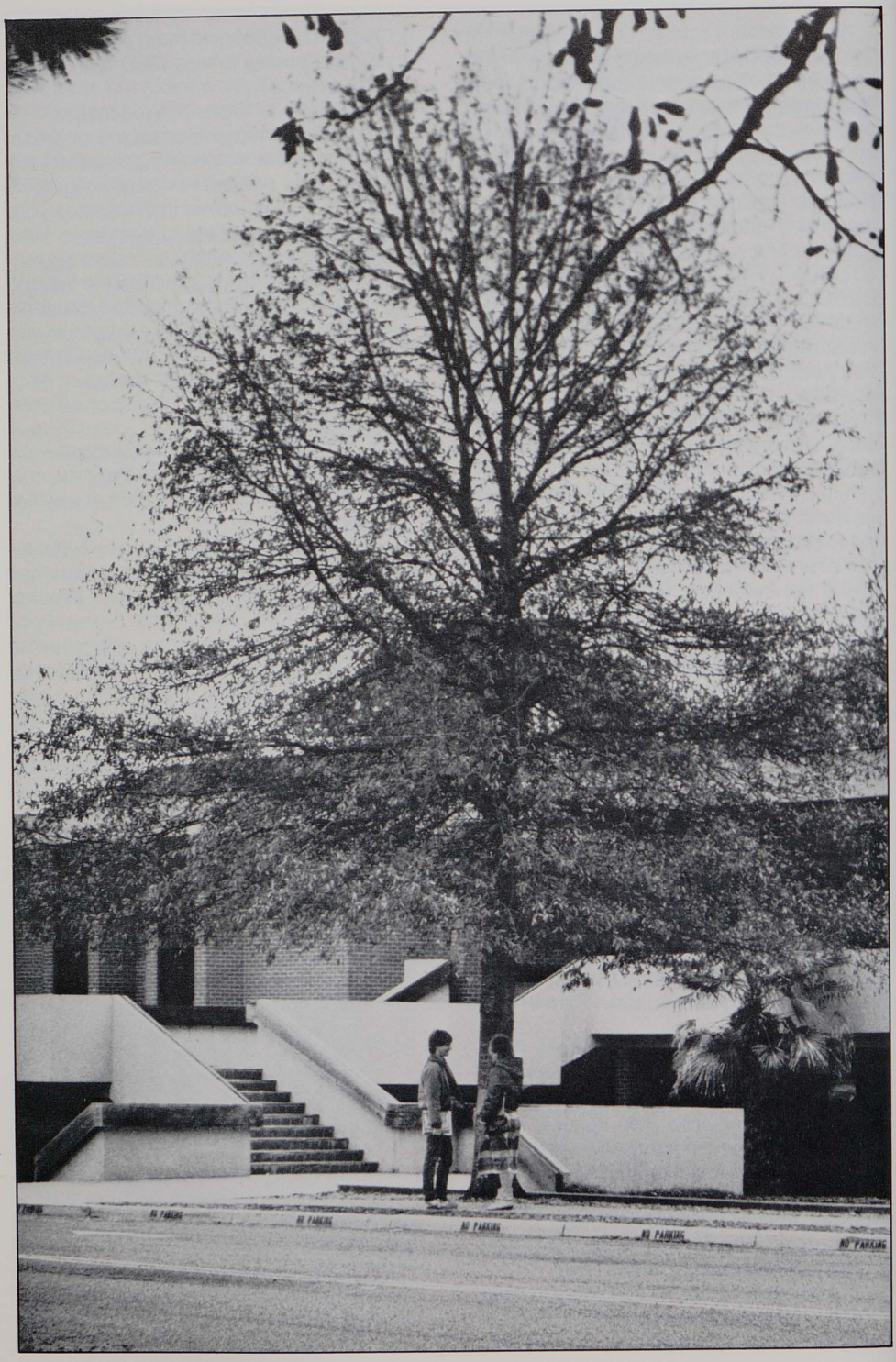
   A student seeking to transfer to Tyler Junior College must:

   a. Present a transcript from the last college or university attended. Students who wish to apply for a degree or certificate from Tyler Junior College must furnish official copies of transcripts from ALL colleges or universities attended.
   b. Continue on scholastic probation at Tyler Junior College if he/she has been placed on probation at another institution.
   c. Not seek to be admitted to Tyler Junior College if he/she is on enforced scholastic withdrawal from another institution. Residents of the Tyler College District may apply to the dean of admissions for special consideration.

      A student transferring from another collegiate institution is not at liberty to disregard his collegiate record and apply for admission on the basis of his high school record or a part of his college record.

4. Special Admissions.

   a. Adult students 21 years of age or over may be admitted upon approval of the dean of admissions.
   b. Early Admission Students: Special high school students are accepted during their senior year upon recommendation of their high school counselor or principal, and with the permission of their parents. These students may take one or two courses each semester. Credit for the courses will not be released until the student graduates from high school and furnishes Tyler Junior College with a transcript showing date of graduation.
   c. Allied Health Programs: In addition to admission to Tyler Junior College, students must fill out appropriate application to the particular allied health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program in which they are interested. Enrollment into these programs is limited due to clinical facilities available.

5. International Students.

The following requirements apply to international students:

Immigrant and refugee students — Students must submit verification of Immigrant Card or I-94 Refugee Permit.

Non-immigrant alien students — The following requirements apply to all students holding visa category A-L issued by Immigration and Naturalization Service:

a. Application and all documents should be submitted at least 30 days prior to registration.
b. Official copy of transcript for the last four years of secondary school. The official transcript must be an original copy translated into English and must show each course completed and grade earned. Students who have attended an American college or university do not need to submit a high school transcript.
c. Official copy of transcript from each college or university attended. All foreign transcripts must be certified English translations.
d. Proof of English proficiency.
   (1.) Test of English as a Foreign Language (TOEFL); minimum acceptable score is 525.
   (2.) Completion of an English Language School or program of recognized standing with proficiency attained equivalent to above TOEFL score as approved by office of admissions.
   (3.) Other proof of English proficiency equivalent to above TOEFL score as approved by office of admissions.
e. Immunization requirements for international students.
   (1.) Freedom from infectious tuberculosis should be ascertained by:
   (a.) Tuberculin Test (T.T.U. PPD, Maxtous Technique) required within six months prior to admission if there is no medical contraindication.
   (b.) Posterior/Anterior chest X-ray is required prior to admission if Tuberculin Test had positive reaction.
   (2.) Types of immunizations:
      (a.) Diphtheria (within 10 years)
      (b.) Tetanus (within 10 years)
      (c.) Poliomyelitis (Types I, II & III)
      (d.) Mumps
      (e.) Measles
      (f.) Rubella
f. Proof of financial ability to stand all expenses for the college year. We have no scholarship aid available for foreign students nor do we issue work permits for them. This means that the student must show his/her ability to stand all expenses for the college year (Form I-134).
g. Proof of hospital and accident policy to cover hospitalization is required.
h. Compliance with all requirements and procedures established for visa category by Immigration and Naturalization Service.

6. Admission Test Scores Requirement.

All freshman students who have completed less than 15 semester hours are strongly encouraged to submit scores of the American College Testing Program (ACT) or the College Board (formerly SAT). Such scores are used for counseling and placement purposes.

It is the student's responsibility to see that these scores are sent to Tyler Junior College well in advance of actual enrollment. Students unable to take either test prior to enrollment are advised to do so at the earliest test date available.

The American College Testing Program and the College Board tests are scheduled at Tyler Junior College and other conveniently located testing centers in Texas and elsewhere. A list of the testing centers may be found in the Student Information Bulletins of the testing services. The Student Information Bulletins, registration forms, and the current year's testing dates may be obtained from the Tyler Junior College Testing Center or from high school or college counselors or registrars.

Transfer students with less than 15 semester hours of credit should submit scores from either the American College Testing Program or the College Board.

College Regulations

RESPONSIBILITY FOR ADMISSION REQUIREMENTS

Students are responsible for meeting all admission requirements including furnishing the necessary transcripts of their work. Failure to meet all requirements within a reasonable period of time after registration may cause them to be dropped from all work for which they have been enrolled.

Tyler Junior College reserves the right to refuse admission or readmission to any applicant who does not comply with admissions procedures or where evidence exists that the applicant probably would be incompatible with the aims and objectives of the College, or where in the judgment of the College, the applicant's presence on campus would not be in the best interest of the applicant or the College. An applicant who has a record of numerous arrests for violations of the law or whose conduct consistently has demonstrated anti-social behavior can be accepted only if the College is fully satisfied that his/her admission will be in the best interest both of the applicant and the College. Any person who does not agree with the above policy has the right of due process.

LATE REGISTRATION

Students should register at the scheduled times in order to have the widest choice of courses and to make the registration procedure more uniform. With approval of the dean of admissions, a student may be permitted to enroll after the scheduled period, but a late registration fee of $10.00 will be charged.

ADDING AND CHANGING COURSES

After the beginning of classes, adding or changing courses will be approved only for the most pressing of reasons such as change of degree plan, conflict of classes, etc. The final date for such changes is on the date specified in the College Catalog. A "change of schedule" fee of $5.00 will be charged each time a change is processed.

POLICY FOR AUDITING A COURSE

When space is available, permission to audit a course may be granted to students who have been admitted to the College, and who either already have credit in the course or do not wish credit for the work.

Students auditing a course may not, under any circumstances, claim credit for the course. Registration of such students will occur on the last day of late registration, or on the date specified in the College Catalog. A student who is registered for a course may not change from credit to audit in the course during audit registration or at any time during the semester.

CHARGES FOR AUDITING A COURSE

Charges are the same as for regular registration. *Persons 65 years of age or older may audit credit courses without tuition charges on a space-available basis.*

QUANTITY OF WORK RULE

Students enrolled in 12 or more semester hours of work are considered full-time students. The standard amount of credit work for each student in the regular session is 15 or 16 hours a semester exclusive of physical activity courses.

The standard amount of credit work for each student in the summer session is six hours a summer term.

WITHDRAWALS

A student desiring to withdraw from school must submit a withdrawal petition to the registrar's office.

ATTENDANCE

Regular class attendance is fundamental for the success of the student; therefore, a student must report promptly and regularly to all classes. Students who are not in attendance enough to be certified to the state will be dropped from the rolls of that class.

GUIDANCE AND COUNSELING

The College has an extensive program in testing, guidance, and counseling, under the supervision of the director of counseling.

ACADEMIC PROBATION

Students failing to make satisfactory progress in their scholastic programs will be placed on probation the following semester. Failure to remove the classification may call for academic suspension.

Satisfactory progress is defined as follows:

A student must maintain a C average (2.0 grade point average) on all work completed. Completed courses are those which receive grades of A, B, C, D, F, or WF. A student who fails to achieve this average at the end of the first semester will receive

notification from the dean of admissions advising him of his probationary status.

Should a student fail to achieve a 2.0 grade point average at the end of a second consecutive semester, the student will receive notification from the dean of admissions advising the student that he must report for counseling.

Should a student fail to achieve a 2.0 grade point average at the end of a third consecutive semester, the student will receive notification from the dean of admissions that the student will not be permitted to attend Tyler Junior College for the next long semester.

A student suspended for scholastic reasons may appeal his/her suspension to the admissions appeals committee.

Students requesting transfer to Tyler Junior College will be evaluated by the dean of admissions utilizing the same criteria as applied to Tyler Junior College students.

GRADES AND REPORTS

Students or parents receive grade reports every eight weeks. The standing of the student in each course is determined by his class performance and by regular examinations. Two hours is considered a reasonable amount of time for average students to spend in preparation for each hour of class work.

Challenging of a grade must be processed during the semester following the awarding of the grade.

PRESIDENT'S LIST

To qualify for the President's List, a student must complete a minimum of 12 hours and have a 4.0 grade point average (all A's).

DEAN'S LIST

To promote high standards of scholarship, the College has established the Dean's List, which is published at the end of each semester. The grade of "A" carries four honor points per semester hour; the grade of "B" carries three; the grade of "C" carries two; and the grade of "D" carries one per semester hour. To qualify for the Dean's List, a student must complete a minimum of 12 semester hours, and have a 3.3 grade point average with no D's, F's or WF's.

GRADUATING WITH HONORS

To graduate with honors a student must complete all required courses of his/her appropriate degree with a grade point average, as follows:

Highest Honors — 4.0 grade point average

High Honors — 3.6 grade point average

Honors — 3.3 grade point average

NUMBERING OF COURSES

One semester hour represents one class hour per week for four and a half months; for example, one course meeting three hours a week for nine months carries credit of six semester hours.

Courses are numbered as follows (except in nursing): The first digit of the number indicates the college year in which the course is taken; the second digit in the number indicates the semester of the year in which the course is taken; the final digit indicates the credit value of the course in semester hours; thus, English 123 indicates that the course is the first year, second semester English with a credit value of three semester hours.

All descriptive titles of courses are followed by two numbers in parentheses. The first of these numbers gives the number of class hours each week while the second number gives the number of hours of laboratory each week. For example, the notation (3-2) indicates that a course has three hours of class meetings and two hours of laboratory weekly.

Four-digit numbers (8023) placed with technology programs, and six-digit numbers (011201) placed with academic courses are approval numbers assigned by state agencies.

TRANSFER TO OTHER INSTITUTIONS

Since colleges differ in their curricula, a student should secure the catalog of the institution to which he intends to transfer credit. Courses for his first two years should be planned in accordance with the degree plan of the institution to which he will transfer.

STUDENT LOAD

A student may enroll in one or more courses. A standard load is considered to be five solid courses (three or four semester hours credit each) plus physical education activity and freshman orientation

(first semester). Organizations such as band and choir may be added without special permission.

CREDIT BY EXAMINATION

College Level Credit by Examination (CLCBE). Tyler Junior College recognizes the fact that many students, independent of the college environment, have achieved the goals and objectives of certain college courses. In accordance with that belief, Tyler Junior College has adopted policies and procedures whereby students may receive college credit for that knowledge and/or experience or may be enrolled in classes commensurate with the academic level to which they belong. For further information about college level credit by examination or advance placement, the student should contact the Tyler Junior College Testing Center.

Credit earned through CLCBE procedures will apply toward the graduation requirements of Tyler Junior College. Credit will also be given for acceptable advance placement scores of the College Board and the College Level Examination Program (CLEP). However, the student will assume full responsibility regarding the acceptance of CLCBCE at other institutions. Tyler Junior College does not guarantee that transferability of credit awarded through CLCBE will be recognized by the institution.

RECORDS AND TRANSCRIPTS

Students shall have access to their official education records and shall have the opportunity to challenge such records if they deem them inaccurate, misleading, or otherwise in violation of their privacy or other rights. Except for directory information, Tyler Junior College will not release personally identifiable data from student records to other than a specified list of exceptions without a written consent of the student. Even a release of information to parents requires a student's written consent.

In compliance with the Family Educational Rights and Privacy Act of 1974 (PL-93-380), as amended, the following information is provided concerning student records maintained by Tyler Junior College; and upon request, this Act is available for review in the office of the registrar.

Area in which student records are maintained:

1. Academic records
   Registrar's Office, Continuing Education Office and faculty offices
2. Placement and testing records
   Counseling Center
3. Financial records
   Business Office and Financial Aid Office
4. Medical records
   College Nurse Office

REVIEW OF RECORD

Any student has the right to inspect and review the content of his/her records, to obtain copies at the student's own expense, to receive explanations or interpretations of the records, and to request a hearing to challenge the content. Access to the records may be requested on a form available from the official in charge of the particular record.

Challenging of a grade must occur during the semester immediately following awarding of the grade.

Informal Review: Follow the procedure as outlined for review of record. An official will summarize action taken on review request form. This should be signed and dated by the review official and maintained with student's records.

Formal Review: If the informal review does not clarify the question of accuracy of record-keeping the student may request a formal review. The Academic Appeals Committee will hear challenges concerning these records.

GENERAL INFORMATION

This is information which may be released to the general public without the written consent of the student. A request for general information should be written and will not be accepted by telephone. A student may request that all or any part of the general information be withheld from the public by making written request to the registrar's office during the first 12 class days of a fall or spring semester, or the first four class days of a summer term. This request will apply only to the current enrollment period. The following information is to be included as general information: date and place of birth; current and permanent address; telephone listing; major and minor; current class schedule; number of hours enrolled in current semester; classification; participation in officially recog-

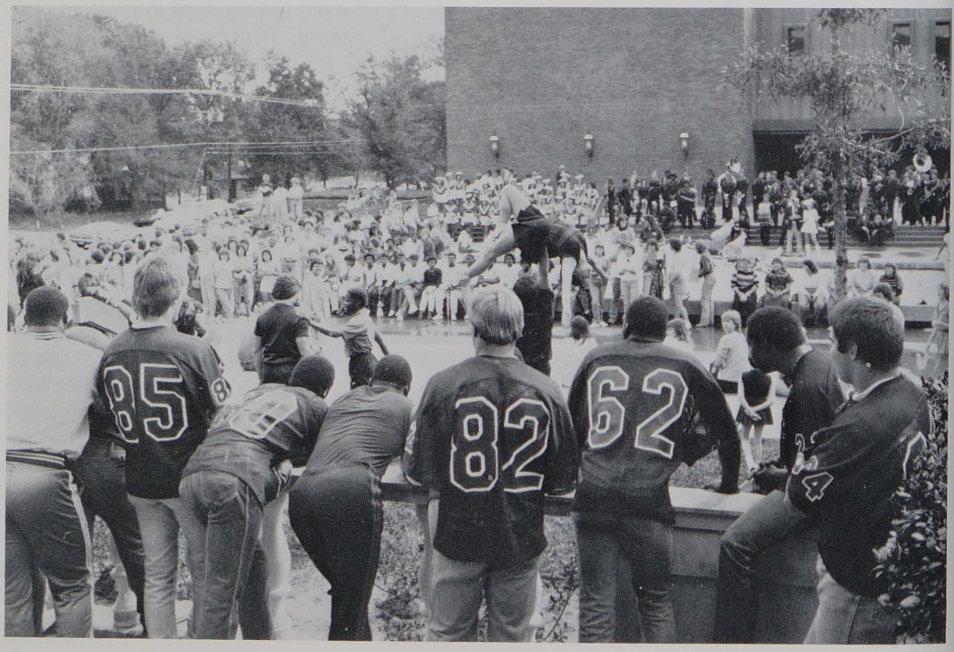
nized activities and sports; weight and height of members of athletic teams; dates of attendance; degrees and awards received; all previous educational agencies or institutions attended.

CHANGE OF NAME OR ADDRESS

A student who changes his/her residence or mailing address is expected to notify the registrar of this change immediately. Any communication from the college which is mailed to the name and address on record or which is posted on the college bulletin boards is considered to have been properly delivered and the student is responsible therefore.

STUDENT CONSUMER INFORMATION

Information not found in this catalog regarding Tyler Junior College may be found in the student activities office.



Graduation

The College awards the Associate in Arts Degree and the Associate in Applied Science Degree to students who complete both the general and specific requirements as set forth for the particular program desired, and who make proper application to the registrar for the degree.

GRADUATION UNDER A PARTICULAR CATALOG

To receive a degree from Tyler Junior College, a student must fulfill degree requirements for that degree as set forth in a catalog under which he is entitled to graduate. He should understand, however, that he has several choices: (1) He may graduate under the current catalog. (2) He may graduate under the catalog in force the year he first registered at Tyler Junior College (within the limitation stated in the second paragraph below). (3) He may graduate under the catalog for any subsequent year in which he was registered at Tyler Junior College (within the limitations stated in the in the following paragraphs).

All of these provisions are subject to the limitation that all requirements for a degree must be completed within four years of the date of the catalog chosen.

GRADUATION APPLICATION DEADLINES

It will be the responsibility of the students to apply for the appropriate degree or certificate for which they feel they are eligible. The deadline for applying for a degree or certificate for the spring semester will be March 1. The deadline for applying for a degree or certificate at the end of summer terms will be August 1. The deadline for applying for a degree or certificate at the end of the fall semester will be October 1.

DATES OF GRADUATION

Although the College holds its annual commencement ceremonies only at the close of the spring semester, students who meet graduation requirements may be awarded degrees three times each year — in May, August and December.

Degrees and Certificates

GENERAL REQUIREMENTS FOR ALL DEGREES

The following general requirements must be met by all students receiving associate degrees:

1. The student must apply for a degree in a specific concentration by the published deadline.
2. The student must complete 62 acceptable credit hours of work with an average grade of at least C.
3. Fifteen of the last 21 credit hours must be completed at Tyler Junior College. At least 15 credit hours of work must be of sophomore level.
4. Students who graduate are required to attend the commencement exercises unless excused.
5. A student must apply for a degree not later than four years after last attending Tyler Junior College.
6. Physical Education Requirements. Participation in health and physical education activity classes is required for all full-time freshman students under the age of 25 who are enrolled in academic (non-technical) degree programs. Two semester hours of HPE activity, including HPE 111, are required for an Associate in Arts Degree.
7. Psychology 111 Requirement. The freshman orientation class is required of all full-time day students during their first semester of enrollment.

ASSOCIATE IN ARTS DEGREE

Tyler Junior College offers the Associate in Arts Degree to students completing the general requirements for all degrees, the general degree requirements for the Associate in Arts Degree, and those courses required for concentrations in the disciplines listed in this Catalog.

The general degree requirements for the Associate in Arts Degree are:

1. ENGLISH 113 and 123 (6 credit hours)
2. HISTORY 213 and 223 (6 credit hours)
   Students may substitute one American History course. Students should check the history department of the senior college to which they intend to transfer.
3. GOVERNMENT 213 and 223 (6 credit hours)
4. HEALTH AND PHYSICAL EDUCATION 111 and one additional HPE activity course (2 credit hours)
   The following students may request substitutions for HPE:
   a. Students with medical excuses signed by a physician
   b. Veterans
   c. Students 25 years of age or older

NOTE: In all Associate in Arts degree plans, several disciplines are suggested as electives. *Social science* includes history, government, economics, sociology, and psychology. *Humanities* include philosophy, literature, foreign language, music, theatre, art, dance, and Bible. *Natural science* includes chemistry, biology, geology, physics, and astronomy. *Laboratory science* includes chemistry, biology, geology, and physics.

ASSOCIATE IN APPLIED SCIENCE DEGREE

Tyler Junior College offers the Associate in Applied Science Degree to students completing both the general degree requirements and those courses required in the following programs as outlined in this Catalog.

Air Conditioning and Refrigeration
Banking
Computer Science
Criminal Justice
Dental Hygiene
Drafting
Electronics
Farm and Ranch Management
Mineral Leasing Technology
Nursing (2-yr RN program)
Nursing (vocational - LVN)
Nursing Home Administration
Office Occupations
Ophthalmic Technician and Dispensing
Ornamental Horticulture
Petroleum Technology
Postal Management
Radiologic Technology

Real Estate Management
Recreation Leadership (tennis teaching)
Respiratory Therapy
Surveying
Welding

All sophomore courses in a student's major subject must be completed at Tyler Junior College unless otherwise approved by the dean of technology. Health science students should check specific graduation requirements for their program.

PROFICIENCY CERTIFICATES

Students completing with a minimum of a C average all applied courses in a specific degree plan are awarded Certificates of Proficiency without the completion of liberal arts courses. Allied Health and Mineral Lease Records Degree plans are not eligible for proficiency certificates. Students completing all courses listed for the first two semesters of either of the two office occupations options are eligible to receive certificates of proficiency.

ADDITIONAL DEGREES

An additional associate degree may be conferred if all requirements for all degrees have been satisfactorily completed, and at least 30 additional semester hours credit have been earned.

An associate degree and a certificate of proficiency may both be awarded, if the student has completed all requirements for both a degree and a certificate and has at least 15 hours additional credit above the requirement for the degree.

Continuing Education

In accordance with its stated objectives, Tyler Junior College offers a large variety of non-credit educational courses, specifically designed for adult citizens who desire to improve their technical, professional, cultural or social learning beyond their present level of education. Most classes are designed to provide opportunities for individuals to continue in the academic or technical areas, but students may enroll in classes for creative activity, cultural endeavor or recreational activity.

Basically, the continuing education programs offer:

1. Adult vocational education for individuals wanting to upgrade their present skills or learn new skills enabling them to explore new occupational fields.
2. Community service for individuals and groups seeking to enhance the quality of living in the community through cultural and enrichment studies, as well as entertainment and recreation by providing opportunities to explore new activities for personal growth and enjoyment.
3. Resources for business, industry, labor, government and professional groups needing to supplement their own training and development programs. Training programs are tailor-made and, if desired, offered "in-house" to meet specific job upgrading and mobility needs of individual organizations.

Classes are offered during the day or in the evening and are provided when a sufficient number of students are enrolled. Non-credit courses are open to interested adults without regard to eligibility for admission to college-credit programs.

Tyler Junior College will award the Continuing Education Unit (CEU) to adults who participate in approved, non-credit continuing education activities administered by Tyler Junior College. One CEU is equal to 10 contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction and qualified instruction. In no instance should the award of CEU be equated with college credit applicable toward a degree.

For more information concerning continuing education programs, contact the associate dean of continuing education at 214/597-1536.

Buildings and Facilities

Tyler Junior College has a campus that encompasses 105 acres, has 27 buildings, including six dormitories, and is valued at $30 million.

H. E. JENKINS HALL

Jenkins Hall is used for academic classes and houses the offices of the administration, admissions and business.

POTTER HALL

This modern building is used for classrooms, laboratories and offices.

WISE AUDITORIUM — FINE ARTS BUILDING

These buildings include special rooms for music, art, drama and speech arts plus a large theater that seats approximately 1,000.

GEORGE W. PIRTLE TECHNOLOGY CENTER

The Center has five buildings which have special classrooms and laboratories for instruction in graphic communications, air conditioning and refrigeration, dental hygiene, drafting, electronics, electronic data processing, petroleum technology, photography, surveying and other technical courses.

STUDENT CENTER BUILDING

The College bookstore, student activities offices, student recreational facilities, student lounges, College Dining Hall, counselors, nurse and Campus police are housed in this building.

GENTRY GYMNASIUM

This gymnasium is used for physical education classes and Apache Belles rehearsals.

WAGSTAFF GYMNASIUM

This building provides modern facilities for a thorough program in physical fitness and for athletic activities as well as general programs. It has a seating capacity of 2,500.

HUDNALL PLANETARIUM

One of the largest planetariums in Texas, the facility is used to reinforce classroom instruction and to meet the needs of the entire community beginning at kindergarten level.

POWELL BUILDING

This building is the home for non-credit continuing education classes. These courses include avocational and vocational programs which attract older students.

ALECK GENECOV SCIENCE AND ARTS BUILDING

This building opened in the fall of 1975 and provides facilities for laboratory sciences, art classes, and a band hall, as well as offices for the teachers of those subject areas.

VAUGHN MEMORIAL LIBRARY AND LEARNING RESOURCES CENTER

This learning resources center houses the library, a complete audio-visual aids facility with production facilities, both audio and video, and an ultra-modern computer controlled dial-access information retrieval center. Two hundred electronically equipped study carrels provide students with instant audio and/or video channels to basic or enrichment information in their courses. An excellent reference consisting of more than 70,000 volumes is housed in the Center.

THE WATSON W. WISE AND EMMA WISE CULTURAL ARTS CENTER

Opened in the fall of 1980, this facility houses the programs of music and speech and drama. Offices, classrooms, practice rooms, and performance facilities, including the Jean Speller Browne Theatre, are housed in the Center.

BONNA BESS VAUGHN CONSERVATORY

A large fully-equipped greenhouse-conservatory with a reception area, the building also features two classrooms and two offices.

THE TYLER MUSEUM OF ART

This beautiful structure of latest museum design is operated through the cooperation of the Junior League of Tyler and Tyler Junior College.

FRANK BALDWIN MAINTENANCE BUILDING

This building contains the various maintenance and utility facilities.

WELDING BUILDING

Constructed in 1983, this building has classroom and workshop facilities.

Student Housing

Tyler Junior College owns and maintains four modern, air-conditioned residence halls for women and three for men. Meals are provided for students living in residence halls in the College Dining Hall.

Students wishing to make reservations for residence halls should write and request an official housing application from the Housing Office, Tyler Junior College, Box 9020, Tyler, Texas, 75711.

The request must be accompanied by a deposit of $150.00 for college residence halls.

Students will be notified of the date they should arrive on campus and the supplies they should bring.

Students accepting college residence hall housing must agree to occupy for at least one academic year.

In the interest of the enforcement of rules and regulations, Tyler Junior College reserves the right to inspect student housing at any time for sanitation purposes or for damage to property.

Tyler Junior College residence halls include:

LILLY MAE VAUGHN HALL This residence hall was built in 1958 and was furnished through the generosity of Dr. and Mrs. Edgar H. Vaughn. The residence hall accommodates 48.

LOIS HOLLEY HALL This residence hall, completed in 1969 and named in memory of Mrs. Lois Holley, houses 64.

SLEDGE HALL Completed in 1977 and named in memory of Mr. and Mrs. A. F. Sledge, the facility houses 72.

MILFORD LEWIS HALL Facilities for 48 are provided. The residence hall is named for Milford L. Lewis, a Tyler Junior College graduate and benefactor.

WEST HALL Facilities are available for 48.

HUDNALL HALL This residence hall, completed in 1982, accommodates 98. The building was named for James S. Hudnall for his many generous gifts to Tyler Junior College.

CLARIDGE HALL This residence hall was erected in 1964 and furnished through the generosity of Mrs. Margaret Ezell. Claridge Hall accommodates 92.

RESIDENCE HALL RATES

The room rent is $400.00 per semester, payable in advance. For a confirmed reservation, a $150.00 payment must be submitted with the application. The balance of $250.00 for the room rent is payable upon moving into the residence hall. Rates are subject to change.

DINING HALL ARRANGEMENTS

The cafeteria food service offers three different food plans to meet the needs of the variety of lifestyles at Tyler Junior College. Plans are for 21, 15 or 10 meals, available seven days a week. Rates are subject to change.

Meal tickets may be purchased by any student enrolled in Tyler Junior College.

Holiday meal schedules are:

THANKSGIVING All residence halls will close Wednesday, November 21, 1984. They will reopen Sunday, November 25, 1984. The dining hall will close following the noon meal Wednesday, November 21, 1984, and will reopen for breakfast Monday, November 26, 1984.

CHRISTMAS The residence halls will close Friday, December 14, 1984. They will reopen Sunday, January 6, 1985. The dining hall will close following the noon meal, Friday, December 14, 1984 and will reopen with breakfast, Monday, January 7, 1985.

SPRING BREAK The residence halls will close Friday, March 15, 1985. They will reopen Sunday, March 24, 1985. The dining hall will close following the noon meal, Friday, March 15, 1985, and will reopen with breakfast, Monday, March 25, 1985.

EASTER The residence halls will close Thursday, April 4, 1985, and will reopen Sunday, April 7, 1985. The dining hall will close following the noon meal, Thursday, April 4, 1985. It will reopen for breakfast Monday, April 8, 1985.

Tuition and Fees

Tuition rates at Tyler Junior College are low because the College is partially supported by the State of Texas. Tuition is due in full at the beginning of the semester. Any other plan must be by special arrangement with the Financial Aid Office. An additional fee of $10.00 is charged for late registration — enrollment after the regularly scheduled registration days. A fee of $5.00 will be charged for all returned checks. If the check was presented in payment of tuition and fees, the return will also result in a $10.00 late registration fee.

A fee of $5.00 will be charged to each student who changes his or her schedule after registration.

Tuition, fees, and other expenses are subject to change by vote of the Tyler Junior College Board of Trustees, or the legislature of the State of Texas.

Residents of the TJC District

Tuition: $4.00 per semester hour with a minimum total tuition charge of $25.00

Texas Residents from outside of the TJC District

Tuition: $4.00 per semester hour with a minimum total tuition charge of $25.00
Surcharge fee: $3.00 per semester hour.

WAIVER OF NON-RESIDENT TUITION

The difference in the rate of tuition for non-resident and resident students may be waived for a person, and dependents, who owns property which is subject to ad valorem taxation by the Tyler Junior College District [Section 130.003(b)(4), *Texas Education Code*].

A person (or dependents) requesting such a waiver shall verify property ownership with the Business Office at the time of registration.

Non-Texas Residents

Students whose residence is outside the state of Texas, and who are thereby classified as non-residential students according to the definition provided by the statutes of the State of Texas are charged a special non-resident tuition rate.

Tuition: $25.00 per semester hour to a maximum of $200.00
Surcharge fee: $3.00 per semester hour.

Students classified as aliens are charged the following rates:
Tuition: $40.00 per semester hour.
Surcharge fee: $3.00 per semester hour.

Special Fees:

1. In accordance with the requirements of the statutes of the State of Texas, students are charged a semester laboratory fee of $2.00 in each natural science or home economics course.
2. A fee of $10.00 is paid by students at the time of graduation.
3. Music fees per semester — Individual lessons

	One 30-Minute Lesson Per Week	Two 30-Minute Lessons Per Week
Piano	$50.00	$75.00
Voice	50.00	75.00
Violin, Violoncello	50.00	75.00
Guitar	50.00	75.00
Woodwind Instrument	50.00	75.00
Brass Instrument	50.00	75.00
Practice Room (four hours per week)		$4.00

TYLER JUNIOR COLLEGE REFUND POLICY*

Students who officially withdraw from Tyler Junior College by completing proper forms in the Registrar's office shall have their tuition and mandatory fees refunded according to the following schedule:

FALL AND SPRING SEMESTERS

Prior to the first class day	100%
During the first five class days	80%
During the second five class days	70%
During the third five class days	50%
During the fourth five class days	25%
After the fourth five class days	NONE

SUMMER SEMESTERS

Prior to the first class day	100%
During the first, second or third class day	80%
During the fourth, fifth or sixth class day	50%
After the sixth class day	NONE

Students who reduce their semester credit hour load by officially dropping a course or courses and remain enrolled at Tyler Junior College will have applicable tuition and fees refunded according to the following schedule:

Regular Session

During the first twelve class days	100%
After the twelfth class day	NONE

Summer Session

During the first four class days	100%
After the fourth class day	NONE

*Allow a minimum of two weeks for refunds to be processed

Financial Aid

APPLICATION PROCEDURES

Applicants for financial assistance should complete the following requirements:

1. Apply and be admitted to Tyler Junior College. *No financial assistance will be awarded until the student has been accepted for admission.*
2. Complete and file an application form as required.
3. Complete and file the necessary information concerning financial resources. In addition:
   a. All students eligible to apply for the Pell Grant MUST submit their Student Aid Report to the financial aid officer prior to his calculating or awarding *any student financial aid*.
   b. All students applying for assistance must complete the Tyler Junior College Student Information Sheet.
   c. All applicants must furnish a copy of current Federal Income Tax Return.
   d. All applicants must be interviewed by the financial aid officer *prior to granting of aid*.
4. Special applications, along with the institutional application, are required for students who apply for Guaranteed Loans.
5. Provide the financial aid office with a student copy of applicant's academic and financial aid transcripts.

Since each application for aid must be checked and the amount of aid determined, it is essential that the APPLICATION and ALL supporting documents be in the hands of the student financial aid office AS SOON AS POSSIBLE PRIOR TO ACTUAL REGISTRATION.

REVOCATION OF AID

The office of financial aid reserves the right to review and revoke aid awarded if applicant:

1. Falsifies information reported
2. Misuses funds awarded
3. Experiences positive changes in his/her family's financial situation
4. Is in default on any previous aid program
5. Fails to make satisfactory progress

PROGRAM DESCRIPTIONS

The Pell Grant Program

This is a Federal aid program designed to provide financial assistance to those who demonstrate a financial need to attend post-high school educational institutions. Please submit the Student Aid Report at least 30 days in advance of registration to insure timely payment of award.

Supplemental Educational Opportunity Grants (SEOG)

An additional grant that may be awarded to exceptionally needy students.

College Work Study Program (CWSP)

A Federal program through which eligible needy students may earn part of their college expenses.

Guaranteed Student Loan Program

Eligible students may receive as much as $2,500 each academic year. Application for the loan is made through a private lending institution.

Workships and Scholarships

Tyler Junior College has a limited number of workships and scholarships that are available whereby deserving students may earn their tuition.

Short Term Loans

The office of financial aid will award emergency loans to students with crisis needs FOR TUITION ONLY.

Texas Public Educational Grant

In an effort to assist students with a demonstrated need to meet the cost of their tuition, Tyler Junior College may award a grant for the cost of tuition.

Vocational Rehabilitation

The Texas Rehabilitation Commission offers assistance for tuition and nonrefundable fees to students who have certain disabling conditions provided their vocational objectives have been approved by a TRC Counselor. Examples of such conditions are orthopedic deformities, emotional disorders, diabetes, epilepsy, heart conditions, etc. Other services are also available to assist the handicapped student to become employable. Application for such service should be made through the Texas Rehabilitation Commissio

Tyler District Office
1517 West Front
Tyler, Texas 75703

Other Federal and State Programs

Most of the following programs have been in existence for a number of years and need no introduction. Tyler Junior College will make every effort to help the student who qualifies for these grants or benefits:

1. Blind, deaf students
2. Children of prisoners of war or persons missing in action
3. Firemen enrolled in fire protection technology courses

All inquiries concerning student aid should be addressed to:

Student Financial Aid Director
Tyler Junior College
Box 9020
Tyler, Texas 75711

VETERANS' SERVICES

Veterans' G.I. Bill of Rights

Tyler Junior College is approved for veterans' training.

Veterans may consult the veterans' coordinator for information and assistance in applying for benefits.

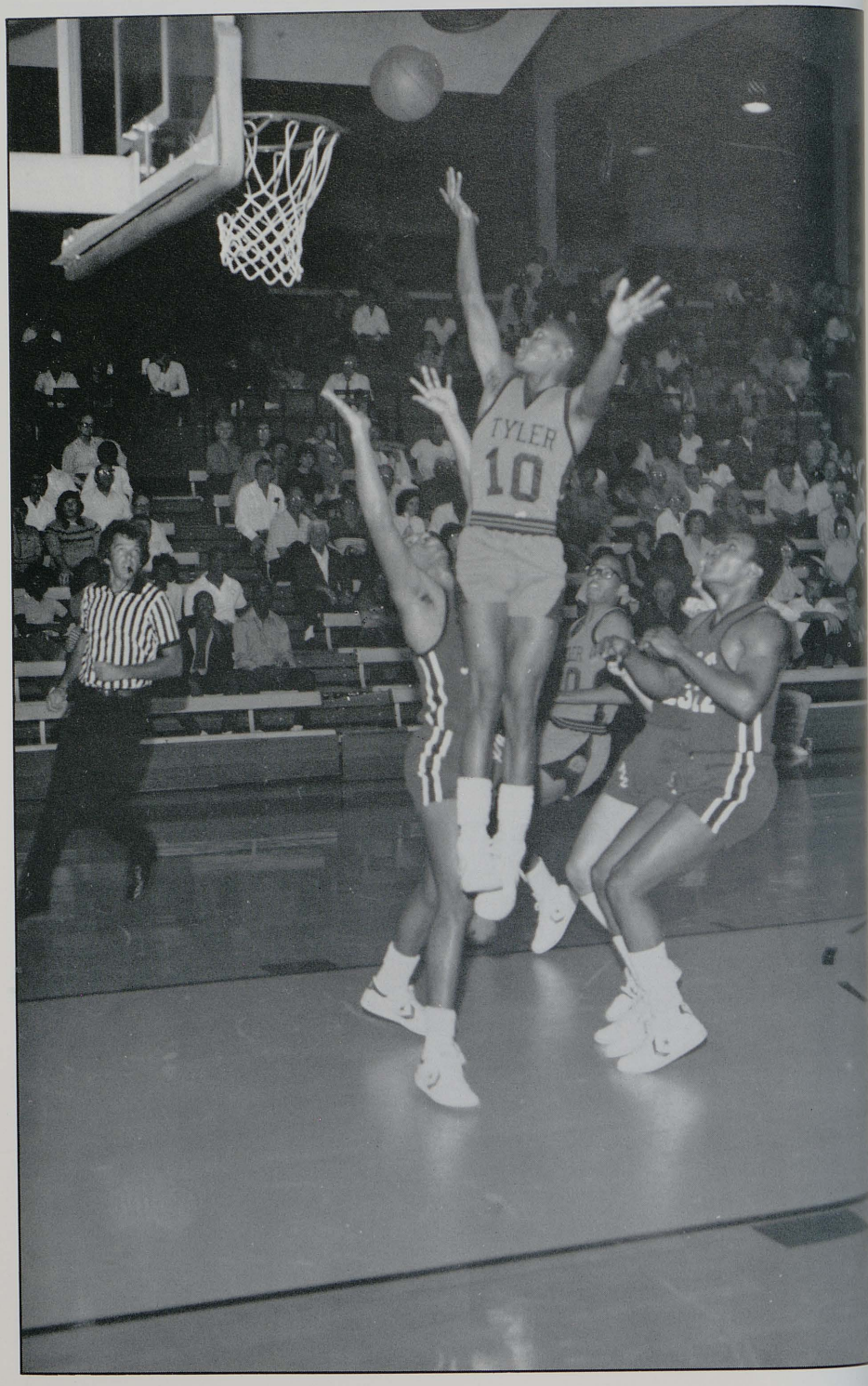
Veterans' Dependents' Aid

The federal government has set up provisions in Public Law 634 whereby certain veterans' dependents may be eligible for a subsidy while pursuring their education. Orphans of service personnel and dependents of veterans with service-connected disability may find themselves eligible.

Scholarships and Awards

Paul Adams Art Award
Alpha Delta Kappa Scholarship
American Association of University Women Scholarship
American Business Women's Scholarship
Tom Anderson Jr. Journalism Scholarship
Arco Oil & Gas Company Scholarship
Brookshire Grocery Company Scholarship
Wood T. Brookshire Scholarship
T. B. Butler Publishing Company Internship and Scholarship
Cedars of Lebanon of Tyler Scholarship
Bess Corbett Memorial Scholarship
Mary Tyler Chapter Daughters of the American Revolution Scholarship
Delta Kappa Gamma Scholarship
Delta Upsilon Fraternity Scholarship
Downtowners Business & Professional Women's Club Scholarship
Sandy Duncan & Robin Duncan Performing Arts Scholarship
Eastman Kodak Company Scholarship
East Texas Cattle-ettes Scholarship
East Texas Petroleum Wives Club Scholarship
East Texas Respiratory Seminar Scholarship
E. A. Ellison Memorial Scholarship
Wilton Fair Endowment
R. W. Fair Foundation Scholarships
Fashion Merchandising Club Scholarship
I. L. Friedman Scholarship
Paul and Sylvia Golenternek Forchheimer Scholarship
Mrs. Aleck Genecov Presidential Scholarship
Brady Gentry Scholarships
Brady P. Gentry Presidential Scholarship
Celia Golenternek Goldstucker, Phillip & Hyman Golenternek Memorial Scholarship
Isadore Golenternek Scholarship
Leo Golenternek Memorial Scholarship
Sarah H. and Alexander Golenternek Scholarship
Granberry Pre-Dental Scholarship
Greater Texas Eastern Chapter March of Dimes Scholarship
Averille Greenhaw Economics Scholarship
J. C. Henderson Memorial Scholarship
Marguerite Hercules Scholarship
Dr. Winifred Golenternek Heringhi Memorial Scholarship
Charles Herrington Memorial Scholarship
Herschbach Language Award and Plaque
Home Builders Association Scholarship
Tyler Home Builders Women's Auxiliary Scholarship
Houston Livestock Show Association Scholarship
Howe-Baker Engineers Scholarship
Dulse Lux Hudnall Presidential Scholarship
David "Cokie" Hughes Band Memorial Fund
Insurance Women of Tyler Scholarship
Thomas Jefferson Memorial Scholarship
Dr. H. E. Jenkins Memorial Scholarship
Dr. Harry E. Jenkins Presidential Scholarship
Wiley Jenkins Scholarship
Lillie Jiles Scholarship
Jeanette Jones Memorial Scholarship
Journalism Ex-Students Association Scholarship and Plaque
Junior Symphony League Scholarship
Margaret Kenzie Scholarship
King Communication Scholarship
Rick Kinsey Electronics Award
Levy Estate Scholarship
Asa Lockhart Scholarship
E. B. Long Memorial Scholarship
Las Mascaras - Dr. Jean Speller Browne Award
Optimist Club Scholarship
Pilot Club Scholarship
P. C. Pinkerton Memorial Scholarship
George W. Pirtle Scholarship in Science and Engineering
George W. Pirtle Technology Scholarships
El Freda Taylor Pirtle Scholarship
Polson-Burton Surveying Scholarship
Professional Secretaries International Scholarship
William S. Reeves Scholarship
L. N. Reynolds Incentive Scholarship
Mr. and Mrs. A. W. Riter, Jr. Scholarship
Jennifer Leigh Rogers Scholarship
Celedonio Romero Guitar Award
Rose Capital Pilot Club Scholarship
Rotary Young Citizens Award
Phillip Saleh Scholarship
Chuck Sanderson Memorial Scholarship
Selber Brothers Employee Club Scholarship
Dr. & Mrs. L. E. Skinner Scholarship

Smith County Association for Retarded Citizens Scholarship
Smith County Bar Association Scholarship
Smith County Dental Auxiliary Dental Hygiene Scholarship
Smith County Medical Auxiliary Scholarship
Kathryn Nettles Speas Scholarship
Tony Spitzberg Memorial Award
Louis Squyres Ornamental Horticulture Merit Award
Florence and Marcus Strum Scholarships
Sun Oil Company (Technology) Scholarship
Texas Nurses Association District 19 Scholarship
Association of Texas Professional Educators of Tyler Scholarship
Tyler Art League Scholarship
Tyler Pi Beta Phi Alumni Club Scholarship
Tyler Board of Realtors Scholarship
Tyler Clearing House Association Presidential Scholarship
Tyler Desk and Derrick Club Scholarship
TISD Educational Secretaries and Aides Association Scholarship
Tyler Evening Business & Professional Women's Club Scholarship
Tyler Junior College/High School Art Scholarship Award
Tyler Legal Secretaries Association Scholarship
Tyler Lions Club Scholarship
Tyler Mental Health Association Scholarship
Tyler Rose Society Scholarship
The University of Texas at Tyler Scholarship
Valedictorian Scholarship
Helen Wadel Music Scholarship
Carl Wallace Memorial Journalism Scholarship
Mary Wallace Future Teacher Scholarship
Dr. & Mrs. J. E. Watkins Scholarship Trust
Wesley Foundation — Ann Adams Scholarship
Dorothy Fay and Jack White Presidential Scholarship
James H. "Buster" White Scholarship
Jack White Scholarship
Watson W. & Emma Wise Cultural Arts Scholarship
Watson Wise Incentive Award
Women's Symphony League Scholarship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Student Activities

Extracurricular activities at Tyler Junior College are many and varied, designed to afford full-time and part-time students with opportunities for enjoyment and enrichment. These activities are intended both to augment class work and to provide relaxation from studies.

The color and excitement of athletic events, the quiet pride of candlelit initiations, the exhilarating esprit de corps of a club project — these are all part of TJC's extracurricular offerings. A community college as well as a traditional junior college, the institution seeks in its numerous beyond-the-classroom activities to serve not only the students on campus but also the township and the entire East Texas area.

APACHE BAND

The internationally-known Apache Band is the official college band which is open to all qualified students, and also accompanies the Apache Belles. The Stage Band and Concert Band are select groups of band students from the Apache Band chosen to play a variety of music.

APACHE BELLES

A select women's organization, the internationally-known group presents skilled performances and routines, appears on national television for half-time entertainment for both college and professional football games and entertains on other occasions.

Throughout the year, special study is given to good taste in clothing, makeup, manners and general personal improvement.

ASSOCIATION OF BAPTIST STUDENTS

This group promotes interest in church activities and encourages spiritual growth and fellowship in the student body.

BIOLOGY SOCIETY OF TYLER JUNIOR COLLEGE

The Biology Society was founded for the purpose of stimulating and promoting interest in the life sciences at Tyler Junior College.

CAMPUS CRUSADE FOR CHRIST

Purpose of Campus Crusade for Christ is to promote interest in church activities and to encourage spiritual growth and fellowship in the student body.

EPSILON DELTA PHI

A computer club, EDP is a group of students interested in data entry, computer operations, programming and related computer fields, such as customer engineers with electronic knowledge.

FASHION MERCHANDISING CLUB

Membership is open to all fashion merchandising majors. The primary objective of the club is to further interest in merchandising as a career. This is accomplished through fashion show production, field trips, fund raising for scholarships and social activities.

FUTURE FARMERS OF AMERICA

This club welcomes any student interested in agriculture. The purpose of the club is to develop leadership and to acquaint the student with the agricultural industry.

THE TYLER JUNIOR COLLEGE CHOIR

Open to any student without audition, the choir presents two concerts a year and sponsors the annual spring musical. The Chamber Singers and Harmony and Understanding are select groups of 16 voices chosen from the choir. Both ensembles perform extensively in the East Texas area.

THE AVERILLE GREENHAW HOME ECONOMICS CLUB

This club's membership is composed of students, both male and female, interested in any phase of home economics.

HORTICULTURE CLUB

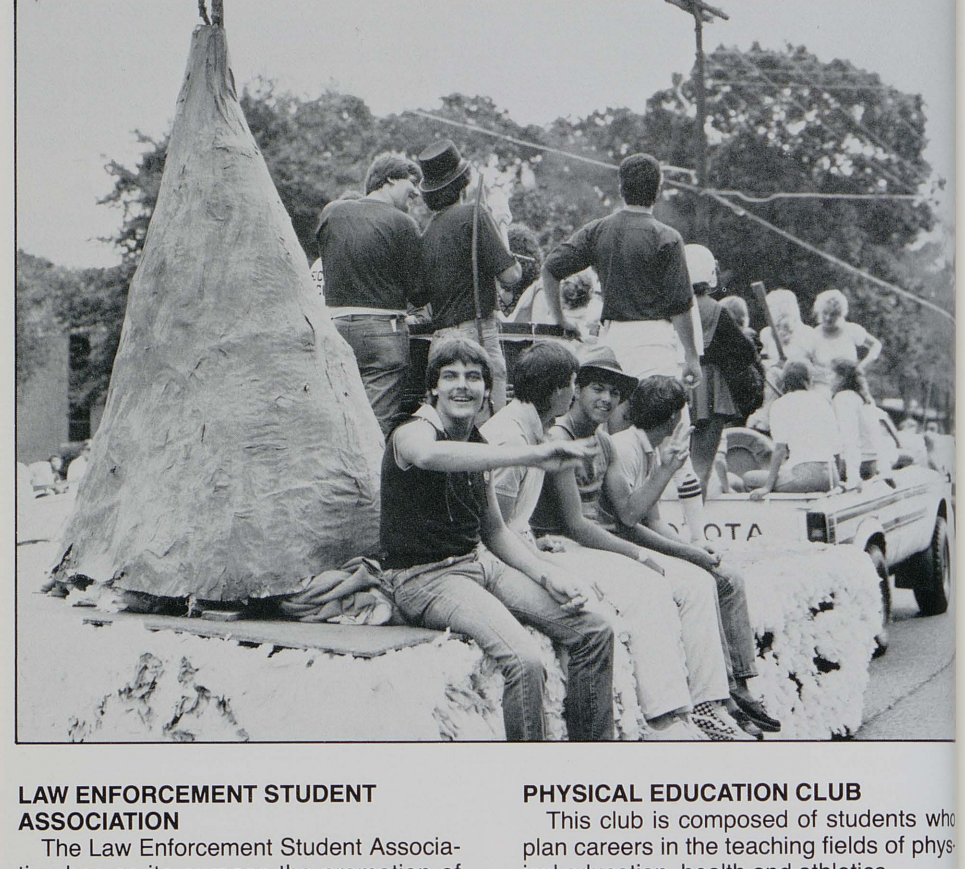
This club is for students interested in all phases of plant life.

LAS MASCARAS SPEECH AND DRAMATIC CLUB

Nurturing interest in all phases of dramatic art, speech, culture and public services, the organization was formed in 1926 and is the oldest on campus. It is open to all students who are interested in theater and speech communications. The club sponsors major dramatic productions throughout the school year.

DELTA PSI OMEGA

This honorary national dramatic fraternity promotes the well-being of theater as an art form. The fraternity is open to serious theater students after a probationary period based on work application.



LAW ENFORCEMENT STUDENT ASSOCIATION

The Law Enforcement Student Association has as its purpose the promotion of and teaching and learning about the field of law enforcement. Members of LESA must be TJC students who are law enforcement majors or in a related field.

MU LAMBDA TAU

Membership in this organization is open to any Tyler Junior College student interested in a career in medical laboratory technology. Mu Lambda Tau is part of the Tyler Junior College health career training programs.

PHI THETA KAPPA

Alpha Omicron Chapter of Phi Theta Kappa, the National Junior College scholastic fraternity, is composed of members elected on the basis of scholarship, character, leadership and service. Membership is restricted to 10 percent of the students enrolled at Tyler Junior College. Faculty and local chapter members name those students meriting special honor.

PHYSICAL EDUCATION CLUB

This club is composed of students who plan careers in the teaching fields of physical education, health and athletics.

RESPIRATORY THERAPY

Students enrolled in the one- and two-year respiratory therapy program are urged to join the Respiratory Therapy Student Organization. The monthly meetings encourage student interaction on personal, professional and social/civic level through various activities including participation in the American Cancer Society's Great American Smokeout, the Cystic Fibrosis "Strike Force" field trips, guest speakers and local and state-wide educational seminars.

THE STUDENT AMERICAN DENTAL HYGIENISTS' ASSOCIATION

The membership of this organization consists of students enrolled in the dental hygiene program. The objectives are to cultivate, promote and sustain the art and science of dental hygiene, to represent and safeguard the common interest of the

profession, and to contribute to improvements in public health.

STUDENTS WITH A PURPOSE

The organization's purpose is to promote unity, harmony and understanding among students and to facilitate older student's adjustments to campus life.

THE STUDENT SENATE

The Student Senate is the official organization for student government. Under the sponsorship of the Student Senate, assisted by the coordinator of student activities, the group offers parties, dances, feature movies, various popular singers and musicals to the student body and faculty.

TEXAS NURSING STUDENT ASSOCIATION

Membership is open to all students preparing for licensure as a registered nurse. The purpose of the organization is to increase the student's awareness of his/her role and responsibilities as a graduate in the profession of nursing.

TYLER JUNIOR COLLEGE NEWS

The official college newspaper, *Tyler Junior College News*, is prepared and managed by a student staff under the direction of faculty advisors. Students act as reporters, editors, advertising salespersons and photographers for the publication. The paper is furnished free to the students. Now in its 28th year of publication, the *TJC News* has won the All-American Honor Rating for 38 semesters. The Associated Collegiate Press gives the award in recognition of merit to a limited number of colleges and university newspapers.

THE APACHE RODEO CLUB

This club promotes the interests of Tyler Junior College students in rodeo and other related activities.

FRATERNITIES

ALPHA TAU ALPHA

Its purpose is to promote unity, harmony, understanding and advancement of justice and service to all men. A member must have received and accepted an invitation to join this chapter. Each member must be a male student who maintains a C average, is interested in the advancement of social service and wishes to encourage the highest scholastic standards and character among the fraternity's members.

DELTA UPSILON

Delta Upsilon of Tyler Junior College is the first national fraternity in the United States to be approved for a junior college. When the National Interfraternity Conference approved national fraternities for junior colleges, Delta Upsilon became a colony in December, 1971 and a national fraternity the following February. The purpose of the organization is to promote fraternal brotherhood and to be a service to the city of Tyler and the world. Membership is by invitation only.

PI KAPPA ALPHA

A national fraternity on the Tyler Junior College campus, Pi Kappa Alpha's objective is to promote physical, intellectual, social, and spiritual growth among its members. The chapter is the only Pike chapter at a junior college in the United States. Membership is by invitation only.

KAPPA KAPPA PSI

Members of Kappa Kappa Psi are currently enrolled in the Apache Band for credit or audit and are in good standing. Each member must maintain a C average and is admitted to the fraternity by pledgeship. Kappa Kappa Psi is affiliated with the National Band Fraternity.

SIGMA PHI EPSILON

A national fraternity on the Tyler Junior College campus, Sigma Phi Epsilon's pur-

pose is to promote and establish better relations within the college and the democratic principles desired. Membership is by invitation only.

SORORITIES

ALPHA DELTA SIGMA

Tyler Junior College's newest sorority, the objective of Alpha Delta Sigma is the advancement of social service and the encouragement of highest scholastic standards and character among members. The organization may include as a member any woman student at Tyler Junior College who maintains a C academic average and who is given an invitation and bid to become a member.

SANS SOUCI SORORITY

Its purpose is to establish a sisterhood that has for its four-fold objective the physical, intellectual, social and spiritual development of its members. The membership is open to any woman student at Tyler Junior College who has a C or better academic average and who receives an invitation and bid to become a member.

TAU BETA SIGMA

Tau Beta Sigma is an organization of the progressive band women who are in good standing with the Apache Band. The organization is affiliated with the national organization.

TAU KAPPA

Sorority members pledge to strive for goals, such as sisterhood, service, pride, friendship and love. The membership is open to any woman student at Tyler Junior College who has a C or better academic average and who receives an invitation and a bid to become a member.

ZETA PHI OMEGA

The sorority has as its objective the advancement of social service and encouragement of highest scholastic standards and character among members. Any woman student of Tyler Junior College who receives an invitation and a bid to become a member of the sorority must have a C or better scholastic average.

RELIGIOUS STUDENT CENTERS

Tyler Junior College has four religious student centers — the Catholic Student Organization, the Church of Christ Bible Chair, known as Tri-C, the Baptist Student Union, known as B.S.U., and the Methodist Student Union, known as the Wesley Foundation. Each student center promotes the teachings of accredited Bible courses, worship, fellowship, fun and entertainment for any Tyler Junior College student.

ATHLETIC PROGRAM

The Tyler Junior College intercollegiate athletic program has become internationally known because of the excellence of its football, basketball and tennis teams. Each year these teams are numbered among the top in the nation. Few are the colleges whose signatures inspire as much respect and admiration as does the name "Apaches."

Much of the credit for achieving national standing year after year goes to the spirit of the student body in the "12th man" backing of the teams. For non-varsity students, an extensive schedule of intramural sports and the physical education programs afford all students many opportunities for participation.

THE HUDNALL PLANETARIUM

This well-known planetarium offers scheduled programs for the general public and daily programs by reservation for school groups. No admission is charged for students or faculty with Tyler Junior College identification cards.

Programs of Study

ASSOCIATE IN ARTS DEGREE WITH A CONCENTRATION IN AGRICULTURE

1. Complete the general degree requirements.
2. Complete these specific requirements:

BIOLOGY	- 8 credit hours	from BIO 114C, 124C, 124B, 114M, 124M
AGRICULTURE	-12 credit hours	———
MATHEMATICS	- 3 credit hours	from MTH 113 or a higher level mathematics course
SPEECH	- 3 credit hours	from SPH 113, 113A, or 223A

ELECTIVES TO TOTAL 62 HOURS. STUDENT SHOULD CHECK SENIOR COLLEGE REQUIREMENTS. Suggested electives from chemistry, agriculture, biology, English, humanities, social science, health and physical education.

ASSOCIATE IN ARTS DEGREE WITH A CONCENTRATION IN ART

1. Complete the general degree requirements.
2. Complete these specific requirements.

ART — 18 credit hours to include ART 113D, 123D, 113E, 123E, 213 and 223

ELECTIVES TO TOTAL 62 HOURS. STUDENT SHOULD CHECK SENIOR COLLEGE REQUIREMENTS. Suggested electives from mathematics, laboratory science, social science, English, humanities, health and physical education.

ASSOCIATE IN ARTS DEGREE WITH A CONCENTRATION IN BEHAVIORAL SCIENCE (MAJORS IN PSYCHOLOGY, SOCIOLOGY)

1. Complete the general degree requirements.
2. Complete these specific requirements.

ENGLISH LITERATURE	- 3 credit hours	any sophomore literature
BIOLOGY	- 8 credit hours	
MATHEMATICS	- 6 credit hours	
HUMANITIES, SOCIAL SCIENCE	- 6 credit hours	

ELECTIVES TO TOTAL 62 HOURS. STUDENT SHOULD CHECK SENIOR COLLEGE REQUIREMENTS. Suggested electives from social science, humanities, natural science, health and physical education.

ASSOCIATE IN ARTS DEGREE WITH A CONCENTRATION IN BUSINESS

1. Complete the general degree requirements.
2. Complete these specific requirements.

ENGLISH LITERATURE	- 3 credit hours	Any sophomore literature
ACCOUNTING	- 8 credit hours	BA 214, 224
ECONOMICS	- 6 credit hours	ECO 213, 223
HUMANITIES, SOCIAL SCIENCE	- 3 credit hours	———
LABORATORY SCIENCE	- 4 credit hours	———
MATHEMATICS	- 6 credit hours	To include MTH 113 and a higher level mathematics course

COMPUTER SCIENCE PROGRAMMING	- 3 credit hours	From MTH 123C, 223S, or CS 213A

ELECTIVES TO TOTAL 62 HOURS. STUDENT SHOULD CHECK SENIOR COLLEGE REQUIREMENTS. Suggested electives from business administration, fine arts, mathematics, health and physical education.

ASSOCIATE IN ARTS DEGREE WITH A CONCENTRATION IN ENGINEERING

1. Complete the general degree requirements.
2. Complete these specific requirements:

MATHEMATICS	-12 credit hours	to include MTH 213A, 213B, 223C
ENGINEERING	- 6 credit hours	EGR 213, 223A
PHYSICS	- 8 credit hours	from PHY 124A, 224A, and 214A
CHEMISTRY	- 4 credit hours	CHM 114

ELECTIVES TO TOTAL 62 HOURS. STUDENT SHOULD CHECK SENIOR COLLEGE REQUIREMENTS. Suggested electives from mathematics, laboratory science, humanities, social science, health and physical education.

ASSOCIATE IN ARTS DEGREE WITH A CONCENTRATION IN FINE ARTS (SPEECH/DRAMA/THEATRE ARTS/DANCE/ART/MUSIC)

1. Complete the general degree requirements.
2. Complete these specific requirements.

ENGLISH LITERATURE	- 3 credit hours	any sophomore literature
MATHEMATICS, FOREIGN LANGUAGE, LABORATORY SCIENCE	-12 credit hours	
SPEECH/DRAMA/THEATRE ARTS/DANCE/ART/MUSIC	-15 credit hours	from any one area

ELECTIVES TO TOTAL 62 HOURS. STUDENT SHOULD CHECK SENIOR COLLEGE REQUIREMENTS. Suggested electives from humanities, social science, natural science, health and physical education.

ASSOCIATE IN ARTS DEGREE WITH A CONCENTRATION IN HOME ECONOMICS

1. Complete the general degree requirements.
2. Complete these specific requirements:

HOME ECONOMICS	-12 credit hours	———
MATHEMATICS, LABORATORY SCIENCE, OR FOREIGN LANGUAGE	- 6 credit hours	———

ELECTIVES TO TOTAL 62 HOURS. STUDENT SHOULD CHECK SENIOR COLLEGE REQUIREMENTS. Suggested electives from social science, laboratory science, humanities, home economics, health and physical education.

ASSOCIATE IN ARTS DEGREE WITH A CONCENTRATION IN JOURNALISM

1. Complete the general degree requirements.
2. Complete these specific requirements:

ENGLISH LITERATURE	- 3 credit hours	any sophomore literature
JOURNALISM	-12 credit hours	to include JRN 113, 213, and 223
MATHEMATICS, LABORATORY SCIENCE OR FOREIGN LANGUAGE	-12 credit hours	———
HUMANITIES AND SOCIAL SCIENCE	- 6 credit hours	———

ELECTIVES TO TOTAL 62 HOURS. STUDENT SHOULD CHECK SENIOR COLLEGE REQUIREMENTS. Suggested electives from humanities, social science, mathematics, health and physical education.

ASSOCIATE IN ARTS DEGREE WITH A CONCENTRATION IN LIBERAL ARTS (MAJORS IN HISTORY, GOVERNMENT, ECONOMICS, LITERATURE)

1. Complete the general degree requirements.
2. Complete these specific requirements:

ENGLISH LITERATURE	- 3 credit hours	any sophomore literature
HUMANITIES OR SOCIAL SCIENCE	-12 credit hours	to include HST 113A and 123A
FOREIGN LANGUAGE, LABORATORY SCIENCE, OR MATHEMATICS	- 6 credit hours	———

ELECTIVES TO TOTAL 62 HOURS. STUDENT SHOULD CHECK SENIOR COLLEGE REQUIREMENTS. Suggested electives from humanities, social science, laboratory science, mathematics, health and physical education.

ASSOCIATE IN ARTS DEGREE WITH A CONCENTRATION IN MATHEMATICS

1. Complete the general degree requirements.
2. Complete these specific requirements.

MATHEMATICS	-15 credit hours	to include MTH 213A, 213B, 223C
LABORATORY SCIENCE	- 8 credit hours	———
COMPUTER SCIENCE	- 3 credit hours	from MTH 123C, 223S, or CS programming courses

ELECTIVES TO TOTAL 62 HOURS. STUDENT SHOULD CHECK SENIOR COLLEGE REQUIREMENTS. Suggested electives from English, mathematics, natural science, social science, foreign language, health and physical education.

ASSOCIATE IN ARTS DEGREE WITH A CONCENTRATION IN MUSIC

1. Complete the general degree requirements.
2. Complete these specific requirements:

MUSIC — 32 credit hours including

(12) Theory - MU113T, 123T, 213T, 223T
(4) Sight Singing and Ear Training - MU111T, 121T, 211T, 221T
(12) Private lessons (instrument and/or voice)
(4) Ensemble (band, choir, etc.)

ELECTIVES TO TOTAL 62 HOURS. STUDENT SHOULD CHECK SENIOR COLLEGE REQUIREMENTS. Suggested electives from English, mathematics, natural science, humanities, social science, health and physical education.

ASSOCIATE IN ARTS DEGREE WITH A CONCENTRATION IN NATURAL SCIENCE (MAJORS IN BIOLOGY, CHEMISTRY, GEOLOGY, PHYSICS)

1. Complete the general degree requirements.
2. Complete these specific requirements:

CHEMISTRY	- 8 credit hours	CHM 114, 124
ADDITIONAL LABORATORY SCIENCE	- 8 credit hours	———
MATHEMATICS	- 6 credit hours	MTH 113A, 113B, or higher level mathematics

ELECTIVES TO TOTAL 62 HOURS. STUDENT SHOULD CHECK SENIOR COLLEGE REQUIREMENTS. Suggested electives from English, mathematics, natural science, foreign language, health and physical education.

ASSOCIATE IN ARTS DEGREE WITH A CONCENTRATION IN HEALTH AND PHYSICAL EDUCATION

1. Complete the general degree requirements.
2. Complete these specific requirements:

HEALTH AND PHYSICAL EDUCATION		
Activity courses	- 4 credit hours	to include HPE 111
Theory courses	-12 credit hours	———
MATHEMATICS OR LABORATORY SCIENCE	- 6 credit hours	———
HUMANITIES, SOCIAL SCIENCE	- 6 credit hours	———

ELECTIVES TO TOTAL 62 HOURS. STUDENT SHOULD CHECK SENIOR COLLEGE REQUIREMENTS. Suggested electives from natural science, social science, humanities, health and physical education.

ASSOCIATE IN ARTS DEGREE WITH A CONCENTRATION IN SPEECH/THEATRE

1. Complete the general degree requirements.
2. Complete these specific requirements:

ENGLISH LITERATURE	- 3 credit hours	Any sophomore literature
SPEECH/THEATRE	-15 credit hours	To include SPH 113C and SPH 123A

ELECTIVES TO TOTAL 62 HOURS. STUDENT SHOULD CHECK SENIOR COLLEGE REQUIREMENTS. Suggested electives from speech, theatre, humanities, social science, laboratory science, fine arts, health and physical education.

ASSOCIATE IN ARTS DEGREE WITH A CONCENTRATION IN TEACHER EDUCATION (MAJORS IN SPECIAL EDUCATION, ELEMENTARY EDUCATION, SECONDARY EDUCATION)

1. Complete the general degree requirements.
2. Complete these specific requirements:

ENGLISH LITERATURE	- 3 credit hours	any sophomore literature
MATHEMATICS, FOREIGN LANGUAGE, LABORATORY SCIENCE	-12 credit hours	4 courses - from 2 of these areas
HUMANITIES, SOCIAL SCIENCE	- 6 credit hours	———

ELECTIVES TO TOTAL 62 HOURS. STUDENT SHOULD CHECK SENIOR COLLEGE REQUIREMENTS. Suggested electives from social science, humanities, natural science, health and physical education.

AIR CONDITIONING AND REFRIGERATION CURRICULUM

Semester I

ENG 113 — Composition and Rhetoric
MTH 113E* — Applied Mathematics I
AC 113 — Introduction to Air Conditioning and Refrigeration
AC 113A — Fundamentals of Refrigeration
AC 113S — Solar System Design and Installation
PSY 111 — Freshman Orientation

Semester II

AC 113D — Fundamentals of Electricity
AC 123A — Refrigeration Machines and Commercial Refrigeration
AC 123B — Blueprint Reading and Heat Load Calculation
MTH 123E* — Applied Mathematics
**Approved Elective

Semester III

AC 123D — Automatic Controls
AC 213A — Heating
MMG 113S — Small Business Management
PHY 113 — Elementary Physics
**Approved Elective

Semester IV

AC 223A — Air Conditioning Systems Design
AC 223B — Installation and Maintenance of Air Conditioning Systems
AC 223C — Automatic Controls II
ENG 223B — Technical Report Writing
**Approved Elective

*Student placement in mathematics is based upon the results of tests and subjects completed before admission.
**Suggested Electives: BA 113A, MMG 113B, History, Government, DFT 123A, SPH 223A.

COMPUTER SCIENCE
ONE-YEAR PROGRAM - CERTIFICATE OF PROFICIENCY

Semester I

CS 112 — Data Entry I
CS 112B — Introduction to Computer Operations
CS 113A — Introduction to Computers
CS 113L — Introduction to Computer Programming Logic
BA 113A — Elementary Accounting
ENG 113 — Composition & Rhetoric
PSY 111 — Freshman Orientation

Semester II

CS 122 — Data Entry II
CS 123B — Computer Operating Systems
BA 123A — Elementary Accounting
ENG 223B — Technical Report Writing
SPH 223A — Business and Professional Speaking
Approved Elective

Suggested Electives: CS 113C, CS 123C, CS 213F, CS 223X, BA 113C, BA 113T, MMG 113S, MMG 211, History or Government.

COMPUTER SCIENCE
TWO-YEAR PROGRAM - ASSOCIATE IN APPLIED SCIENCE

FIRST YEAR

Semester I

CS 112 — Data Entry I
CS 112B — Introduction to Computers Operation
CS 113A — Introduction to Computers
CS 113L — Introduction to Computer Programming Logic
BA 113A — Elementary Accounting
ENG 113 — Composition and Rhetoric
PSY 111 — Freshman Orientation

Semester II

CS 123E — Computer Programming: Assembly Language
CS 123L — Advanced Computer Programming Logic
BA 123A — Elementary Accounting
MTH 113* — College Algebra
ENG 223B — Technical Report Writing

SECOND YEAR

Semester III

CS 213A — Computer Programming: COBOL
CS 213B — System Analysis I
CS 213F — Computer Programming: BASIC Language
or Approved Elective
CS 213R — Computer Programming: RPG II
SPH 223A — Business and Professional Speaking

Semester IV

CS 223A — Advanced Computer Programming: COBOL
CS 223B — Systems Analysis II
CS 223C — Computer Programming: FORTRAN
or Approved Elective
CS 113C — Computer Literacy
or Approved Elective
CS 223G — Advanced Computer Programming: BASIC Language
or Approved Elective

*Student placement in mathematics classes in based upon results of tests and subjects completed before admission.

**Suggested Electives: CS 113C, CS 121, CS 123B, CS 123C, CS 213S, CS 223X, OC 113T, MMG 113S, MMG 211, MTH 113E, MTH 123C, MTH 123E, History or Government

CRIMINAL JUSTICE CURRICULUM

Semester I

ENG 113 — Composition and Rhetoric
HST 213 — History of the United States
CJ 113 — Introduction to Criminal Justice
CJ 113B — Police Organization and Administration
CJ 113C* — Probation and Parole
PSY 111 — Freshman Orientation

Semester II

ENG 123 — Composition and Rhetoric
HST 223 — History of the United States
SPH 223A — Business and Professional Speaking

CJ 123B — Police Role in Crime and Delinquency
CJ 123C — Patrol Administration
or
CJ 123D — Criminology

Semester III

PSY 213 — Introduction to Psychology
GOV 213 — American Government
SOC 213 — Introduction to Sociology
or
CJ 213C — Criminalistics
CJ 213A — Criminal Investigation
CJ 213B — Legal Aspects of Criminal Justice

Semester IV

GOV 223 — National and State Government
SOC 223 — Social Problems
or
CJ 223E* — Police Defense Tactics
CJ 223B* — Traffic Planning and Administration
CJ 223C — Criminal Procedure and Evidence
CJ 223D — Police Community Relations
*Non-Core Curriculum Courses

DENTAL HYGIENE CURRICULUM

Semester I

DH 113R — Dental Hygiene Radiography
DH 114 — Oral Anatomy and Physiology
DH 114C — Dental Hygiene Clinic I

BIO 113B — Anatomy and Physiology
BIO 114A — Microbiology

Semester II

DH 122A — Pathology
DH 124C — Dental Hygiene Clinic II
DH 123 — Oral Histology and Embryology
BIO 123B — Anatomy and Physiology
CHM 113D — Elementary Chemistry

Summer School I

ENG 113 — Composition and Rhetoric
PSY 213 — Introduction to Psychology

Summer School II

ENG 123 — Composition and Rhetoric
SOC 213 — Introductory Sociology

Semester III

DH 211G — Graphic and Audio Visuals
DH 212 — Pharmacology
DH 212D — Clinical Nutrition
DH 212 H — Community Dental Health I
DH 212P — Periodontology
DH 214 — Dental Materials
DH 215C — Dental Hygiene Clinic III

Semester IV

DH 221S — Seminar
DH 225C — Dental Hygiene Clinic IV
DH 223H — Community Dental Health II
SPH 113A — Fundamentals of Speech

DRAFTING TECHNOLOGY CURRICULUM

FIRST YEAR

Semester I

DFT 113A — Mechanical Drawing I
DFT 113B — Illustration Drawing
DFT 223E — Electrical Drafting
ENG 113 — Composition and Rhetoric
MTH 113E* — Applied Mathematics
PSY 111 — Freshman Orientation

Semester II

DFT 123A — Architectural Drawing
DFT 123B — Mechanical Drawing II
DFT 213D — Descriptive Geometry
ENG 223B — Technical Report Writing
MTH 123E* — Applied Mathematics II

SECOND YEAR

Semester III

DFT 213P — Pipe Drafting
DFT 213G — Computer-Aided Drafting I
DFT 223S — Structural Drafting
SPH 223A — Business & Professional Speaking
MTH 113T* — Trigonometry or MTH 113B

Semester IV

DFT 223B — Map Drafting

DFT 223C — Plane Surveying
DFT 223G — Computer-Aided Drafting II
PHY 113D — Industrial Strength of Materials

**Approved Elective

*Student placement in mathematics classes is based upon the results of tests and subjects completed before admission.
**Suggested Electives: DFT 223P, MMG 113C, SUR 223B, History and Government

ELECTRONICS CURRICULUM

Semester I

PSY 111 — Freshman Orientation
ELC 113 — Basic Electronics
ELC 113L — Basic Electronics Laboratory
ELC 113M — Elementary Circuit Analysis
ENG 113 — Composition and Rhetoric
MTH 123E* — Applied Mathematics II

Semester II

ELC 123 — Digital Electronics
ELC 123A — Power Distribution & Electromagnetics
ELC 123L — Advanced Electronics Laboratory
ELC 123M — Advanced Circuit Analysis
CS 213S — Survey of Computing

Semester III

ELC 213A — Digital Computer Fundamentals
ELC 213C — Semi-Conductors Laboratory I
ELC 213T — Basic Communications Systems
EGR 112 — Engineering Drawing
PHY 113 — Physics Problems
ENG 223B — Technical Report Writing

Semester IV

ELC 223A — Automation and Computers
ELC 223T — Advanced Communications Systems
ELC 223C — Semi-Conductors Laboratory II
SPH 223A — Business and Professional Speaking
DFT 223E — Electronic Drafting

*A more advanced mathematics course may be substituted for MTH 123E.

ELECTRONICS CURRICULUM
(Power Technology Option)

Semester I

ELC 113 — Basic Electronics
ELC 113L — Basic Electronic Laboratory
ELC 113M — Elementary Circuit Analysis
ENG 113 — Composition and Rhetoric
MTH 113 — College Algebra
SPH 223A — Business and Professional Speaking
PSY 111 — Freshman Orientation

Summer Semester

ELC 123B — Electrical Instruments and Measurements
ELC 123D — Automatic Controls

Semester II

ELC 123 — Digital Electronics

ELC 123A — Power Distribution & Electromagnetics
ELC 123L — Advanced Electronics Laboratory
ELC 123M — Advanced Circuit Analysis
EGR 112 — Engineering Drawing
MTH 113T — Applied Trigonometry

Summer Semester

ELC 123C — Electrical Power Systems
ELC 123E — Operating Problems Analysis

Semester III

ELC 213A — Digital Computer Fundamentals
ELC 213C — Semiconductors Laboratory I
CS 213S — Survey of Computing
DFT 223E — Electronic Drafting
PHY 113 — Physics Problems
ENG 223B — Technical Report Writing

Summer Semester

ELC 223C — Semiconductor Laboratory II
ELC 223G — Power Distribution

FARM AND RANCH MANAGEMENT CURRICULUM

Semester I

ENG 113 — Composition and Rhetoric
RMG 113 — Principles of Soil Management
RMG 113C — Farm Buildings & Construction
RMG 123A — Agri Economics & Finance
RMG 223C — Principles of Agriculture Marketing
PSY 111 — Freshman Orientation

Semester II

ENG 223B — Technical Report Writing
RMG 113A — Principles of Animal Husbandry
RMG 123D — Farm Power Machinery
RMG 123F — Principles of Feed Production
RMG 123G — Farm & Ranch Appraising

Summer Semester I

RMG 116S — Ranch Training On-The-Job

Semester III

MTH 113E — Applied Mathematics
RMG 213 — Principles of Agriculture
RMG 213A — Livestock Rations
RMG 214 — Farm Shop
RMG 223 — Animal Health

Semester IV

SPH 223A — Business & Professional Speaking
RMG 223A — Farm & Ranch Records
RMG 223B — Principles of Beef Cattle Production
RMG 223D — Principles of Livestock Reproduction
RMG 223E — Farm Shop II

*Suggested Electives: Biology 114C, Biology 124B, Government, History, Psychology 223, Sociology 213, Business Administration 113T.

FASHION MERCHANDISING CURRICULUM

FIRST YEAR

Semester I

FM 113 — Introduction to Fashion Merchandising
FM 113A — Fashion Development Training I
FM 113B — Fashion, Color, Line, and Design
FM 113C — Fashion Textiles
ENG 113 — Composition and Rhetoric
PSY 111 — Freshman Orientation

Semester II

FM 123 — Fashion Marketing
FM 123A — Fashion Development Training II
FM 123B — Fashion Apparel: Construction & Alterations
MMG 223 — Salesmanship
SPH 113A — Fundamentals of Speech

SECOND YEAR

Semester III

FM 213 — Promotion in Fashion Sales
FM 213A — Fashion Development Training III
BA 113B — Introduction to Business
MMG 113B — Principles of Management
CS 123C — Management of Computer Use

Semester IV

FM 223 — Fashion Buying & Merchandising
FM 223A — Fashion Development Training IV
FM 223B — Retail Mathematics
ENG 223B — Technical Report Writing
JRN 123 — Introduction to Advertising

Suggested Electives: Chemistry, Government, History, Economics, Psychology, Sociology, MMG 113C, MMG 113S.

FIRE PROTECTION TECHNOLOGY CURRICULUM

Semester I

FPT 113 — Fundamentals of Fire Protection
FPT 113A — Industrial Fire Protection I
ENG 113 — Composition and Rhetoric
FPT 113H — Fire Science Chemistry I
MTH 113E* — Applied Mathematics I

Semester II

FPT 123 — Fire Protection Systems
FPT 123A — Fire Prevention
FPT 123B — Industrial Fire Protection II
FPT 123H — Fire Science Chemistry II
SPH 223A — Business and Professional Speaking

Semester III

FPT 213 — Fire Administration I
FPT 213A — Building Codes and Construction
FPT 213B — Fire and Arson Investigation
ENG 223B — Technical Report Writing
GOV 223 — American State Government
Approved Elective**

Semester IV

FPT 223 — Hazardous Materials I
FPT 223A — Fire Administration II
FPT 224B — Fire Fighting Tactics and Strategy
*Approved Elective
**Free Elective
**Free Elective

*Student placement in mathematics classes is based upon the results of tests and subjects completed before admission.
**Approved Electives: FPT 113B, FPT 113C, FPT 113D, FPT 113E, FPT 113F, FPT 113G, FPT 223C.

GRAPHIC COMMUNICATIONS TECHNOLOGY CURRICULUM

Semester I

GC 113 — Basic Photography
GC 113A — Basic Graphics
GC 213A — Photographic Reproduction
ENG 113 — Composition and Rhetoric
MTH 113* — College Algebra
PSY 111 — Freshman Orientation

Semester II

GC 123 — Advanced Photography
GC 123B — Reproduction Layout and Design
GC 223 — Studio Photography
ENG 223B — Technical Report Writing
MTH 113T* — Applied Trigonometry or MTH 113B
**Approved Elective

Semester III

GC 213 — Commercial Photography
GC 213C — Color Principles I
GC 223A — Graphic Reproduction
SPH 223A — Business and Professional Speaking
**Approved Elective

Semester IV

GC 223B — Commercial Advertising Techniques
GC 223C — Color Principles II
GC 223D — Commercial Photography II
PSY 223 — Applied Psychology
**Approved Elective

*Student placement in mathematics is based upon the results of tests and subjects completed before admission.
**Suggested Electives: History, Government, ART 113D, Chemistry 114, MMG 223B, and MMG 113S.

MEDICAL LABORATORY TECHNICIAN CURRICULUM

FIRST YEAR

Semester I

ENG 113* — Composition and Rhetoric
MTH 113E — Applied Mathematics
BIO 114D — Anatomy and Physiology
MED 113 — Basic for Allied Health Service
BIO 114A — Microbiology
PSY 111 — Freshman Orientation

Semester II
CHEM 114 — General Chemistry
MTH 113 — Algebra
MED 123 — Clinical Microbiology
BIO 124D — Anatomy and Physiology
MED 123A — Special Clinical Microbiology
First Summer Session
Second Summer Session
MED 123S — Clinical Practice I
PSY 213 — Introductory Psychology

SECOND YEAR

Semester III
CHEM 124 — General Chemistry
MED 223A — Medical Laboratory Techniques II
MED 213C — Clinical Chemistry
MED 213A — Medical Laboratory Techniques I
ENG 123
or
ENG 223B — Technical Report Writing
Semester IV
MED 226 — Clinical Practice II
MED 226A — Clinical Practice III
First Summer Session
MED 216S — Clinical Practice IV

*Student placement in English classes is based upon results of tests and subjects completed before admission.

MID-MANAGEMENT CURRICULUM
(Banking Option)

FIRST YEAR

Semester I
ECO 213 — Principles of Economics
ENG 113 — Composition and Rhetoric
BM — (9 hours of banking courses)
Semester II
BA 113A — Elementary Accounting
REM 123A — Real Estate Finance
BM — (9 hours of banking courses)

SECOND YEAR

Semester III
BM — (9 hours of banking courses)
MMG 113B — Principles of Management
MMG 213B — Personal Management
Semester IV
BA 123A — Elementary Accounting II
BM — (9 hours of banking courses)
Elective — (3 hours)

MID-MANAGEMENT CURRICULUM
(Supervision Option)

Semester I

MMG 113A* — Mid-Management Work Experience and Seminar
MMG 113B — Principles of Management
MMG 113C — Human Relations in Management
ENG 113 — Composition and Rhetoric
BA 113B — Introduction to Business
PSY 111 — Freshman Orientation

Semester II

MMG 123A* — Mid-Management Work Experience and Seminar
MMG 123 — Principles of Marketing
BA 113C — Business Correspondence
BA 113D — Business Mathematics
**Approved Elective

Semester III

MMG 211 — Employment Preparation and Job Interview
or Approved Elective**
MMG 213B — Personnel Management
MMG 213 — Advertising and Promotions
MMG 213A* — Mid-Management Work Experience and Seminar
BA 113A or BA 214 — Accounting
ECO 213 — Principles of Economics

Semester IV

MMG 223 — Salesmanship
MMG 223B — Introduction to Public Relations
MMG 223A* — Mid-Management Work Experience and Seminar
SPH 223A — Business and Professional Speaking
**Approved Elective

*Mid-Management Intership includes twenty hours of supervised work experience each week, with one-hour related weekly seminar. Students are limited to only one internship course per semester.

**Suggested Electives: History, Government, CS 123C (Management Computer Use), OC 112M, OC 113T, MMG 113S, MMG 223R.

MINERAL LAND MANAGEMENT CURRICULUM

Semester I

REM 113 — Real Estate Principles
REM 113B — Introduction to Land Records
OC 113T* — Beginning Typing
or Approved Elective
BA 113 — Oil and Gas Law
ENG 113 — Composition and Rhetoric

Semester II

REM 213 — Methods in Land Title Investigation
REM 123 — Real Estate Law
DFT 123R — Drafting for Real Estate
SPH 223A — Business and Professional Speaking
ENG 223B — Technical Report Writing
or Approved Elective

*Approved Electives: BA 113A (Elementary Accounting), REM 113D (Real Estate Math), DFT 223C (Plane Surveying), MMG 113C (Human Relations), REM 123B (Real Estate

Appraising), Government, PT 113 (Petroleum Development), GEO 114 (General Geology).

MINERAL LEASE RECORDS TECHNOLOGY CURRICULUM

FIRST YEAR

Semester I

ENG 113 — Composition and Rhetoric
BA 113 — Oil & Gas Law
OC 113T* — Beginning Typewriting
CS 112 — Data Entry I
REM 113 — Principles of Real Estate
REM 113B — Introduction to Land Records
PSY 111 — Freshman Orientation

Semester II

BA 113C — Business Correspondence
BA 214 — Principles of Accounting
MTH 113E — Applied Mathematics or MTH 113
DFT 223B — Map Drafting
CS 122 — Data Entry II
REM 213 — Methods in Land Title Investigation

SECOND YEAR

Semester III

ENG 223B — Technical Report Writing or ENG 123
GOV 213 — American Government
REM 213F — Introduction to Boundary Location
CS 112B — Introduction to Computer Operating
REM 213E — Land Title Problems
Approved Elective (Must be selected from approved electives)

Semester IV

GOV 223 — American State Government
REM 223E — Contracts and Negotiable Instruments
REM 123 — Real Estate Law
BM 213B — Trust Business
Approved Elective (Must be selected from approved electives)

*A student who has typing skills (45 words per minute) may substitute an approved elective. Approved Electives: ENG 223B, ECO 213, MTH 113, MTH 113B, MTH 113K, CS 113A, BA 213L, HST 213, HST 223, GEO 114, BA 123T.

ASSOCIATE DEGREE NURSING CURRICULUM

FIRST YEAR

Summer Session II

ENG 113 — Composition & Rhetoric
PSY 213 — Introduction to Psychology

Semester I

NSG 117* — Nursing I
BIO 114D* — Anatomy & Physiology
ENG 123 — Composition & Rhetoric
PSY 223A — Child Growth & Development
P.E. 111X* — Body Mechanics

Semester II

NSG 127* — Nursing II
BIO 124D* — Anatomy & Physiology

SOC 213 — Introduction to Sociology
P.E. 121X* — Physical Fitness

SECOND YEAR

Summer Session I

NSG 214* — Nursing III

Semester III

NSG 225* — Nursing IV
NSG 225A* — Nursing V
NSG 114A* — Microbiology

Semester IV

NSG 235* — Nursing VI
NSG 235A* — Nursing VII
Free Elective

*Must be taken in sequence if not previously completed with "C" or better.

Note: Those students who have completed BIO 113B and/or 123B with a "C" or better prior to fall 1983 have met this requirement.

NON-NURSING COURSES (WITH THE EXCEPTION OF P.E.) MAY BE TAKEN PRIOR TO ADMISSION TO THE NURSING PROGRAM.

NURSING HOME ADMINISTRATION CURRICULUM

FIRST YEAR

Semester I

ENG 113* — Composition & Rhetoric
NHA 113 — Introduction to Nursing Home Administration
NHA 113A — Psychology of Patient Care
NHA 113G — Group Activities
**Approved Elective

Semester II

NHA 121 — Nursing Home Standards
BA 113A — Elementary Accounting
NHA 123 — Technology of Patient Care
NHA 123A — Nursing Home Administration Law
SPH 223A — Business and Professional Speaking
**Approved Elective

SECOND YEAR

Semester III

GOV 213 — American Government
NHA 216*** — Nursing Home Internship (w/seminar)
NHA 213A — Financial Mgt. of Nursing Home
** Approved Elective

Semester IV

PSY 213 — Introduction to Psychology
NHA 226 — Nursing Home Administration Internship II (w/seminar)
NHA 224A — Nutrition and Quantity Foods
ENG 223B — Technical Report Writing

*Student placement in ENG 113 is based upon the results of tests and subjects completed before admission.

**Suggested Elective: ENG 113E, MMG 213B, MMG 223B, MMG 113C.

***During the Sophomore year, twenty hours per week are spent in supervised on-job-training in a nursing home.

OFFICE OCCUPATIONS CURRICULUM
(General Office Option)

Semester I
OC 112M — Business Machines
OC 113F — Introduction to Secretarial Procedures
OC 113R — Business English
OC 123T — Intermediate Typing
BA 113A — Elementary Accounting
PSY111 — Freshman Orientation

Semester II
OC 123C — Business Communications
OC 122 — Machine Transcription
OC 213T — Advanced Typing
OC 123W — Word Processing I
BA 113D — Business Math
BA 123A* — Elementary Accounting

Semester III
OC 213F — Advanced Secretarial Procedures
OC 213W — Word Processing II
CS 112 — Data Entry I
CS 112B — Introduction to Computer Operation
MMG 113C — Human Relations
ENG 113 — Composition and Rhetoric

Semester IV

CS 122 — Data Entry II
ENG 223B — Technical Report Writing
BA 213L — Business Law
CS 113C — Computer Literacy
Elective
Elective

*BA 214 Accounting may be taken in the place of BA 113A and BA 123A if two additional elective hours are completed.

Suggested Electives: BA 214, BA 224, BA 113B, ECO 213, GOV 213, GOV 223, HST 213, HST 223, PSY 213 and SPH 223A, MMG 211, OC 113T.

OFFICE OCCUPATIONS CURRICULUM
(Secretarial Option)

Semester I

OC 112M — Business Machines
OC 113F — Introduction to Secretarial Procedures
OC 113R — Business English
OC 123T — Intermediate Typing
BA 113D — Business Math
PSY 111 — Freshman Orientation

Semester II

OC 123C — Business Communications
OC 213T — Advanced Typing
OC 123W — Word Processing I
OC 124S — Intermediate Shorthand
OC 122 — Machine Transcription

Semester III

OC 213F — Advanced Secretarial Procedures
OC 213W — Word Processing II
OC 214S — Advanced Shorthand
BA 113A* — Elementary Accounting
MMG 113C — Human Relations

Semester IV

OC 223F — Executive Secretary
BA 123A* — Elementary Accounting
ENG 113 — Composition and Rhetoric
Elective
Elective

*BA 214 Accounting may be taken in place of BA 113A and BA 123A if two additional elective hours are completed.

Suggested Electives: BA 113B, BA 213L, BA 214, BA 224, CS 121, CS 112B, ECO 213, ENG 223B, GOV 213, GOV 223, HST 213 or HST 223, PSY 213, SPH 223A, OC 113T, OC 114S.

OPHTHALMIC TECHNICIAN AND DISPENSING CURRICULUM

FIRST YEAR

Semester I

ENG 113* — Composition and Rhetoric
MTH 113E* — Applied Mathematics I
Approved Elective
OD 113 — Ophthalmic Materials & Lab I

OD 113B — Introduction to Ophthalmic Dispensing
PSY 111 — Freshman Orientation

Semester II

OD 123 — Ophthalmic Materials & Lab II
OD 123A — Anatomy & Physiology of the Eye
OD 123B — Principles of Optics I
MMG 113S — Small Business Management
Approved Elective

SUMMER SCHOOL

Semester I

OD 114S — Practicum

Semester II

OD 124S — Practicum

SECOND YEAR

Semester III

OD 213 — Ophthalmic Materials and Lab III
OD 213A — Ophthalmic Dispensing I
OD 213B — Principles of Optics II
OD 213C — Practicum or Approved Elective
OD 213D — Office Procedures, Ethics and Insurance

Semester IV

OD 223 — Contact Lenses & Special Aids
OD 224A — Ophthalmic Dispensing II
OD 223D — Seminar
ENG 223B — Technical Report Writing
OD 223C — Practicum or Approved Elective

Approved Electives: MMG 113C, MMG 223R, CS 113A, ENG 123, SPH 113A, HIST., GOVT., BA 113A, MMG 213B

*Student placement in MTH & ENG classes is based upon the results of tests & subjects completed before admission.

ORNAMENTAL HORTICULTURE CURRICULUM

FIRST YEAR

Semester I

ENG 113 — Composition and Rhetoric
HRT 113A — Landscape Plant Materials
HRT 123A — Herbaceous & Tropical Plants
HRT 213 — Greenhouse Horticulture
MTH 113E — Applied Mathematics
PSY 111 — Freshman Orientation

Semester II

BA 113A — Elementary Accounting
AGR 123B — Horticulture
HRT 123B — Floral Design I
HRT 123C — Landscape Maintenance
MMG 223 — Salesmanship

SECOND YEAR

Semester III

MMG 113S — Small Business Operations
HRT 213A — Nursery Operations
HRT 213C — Floral Design II

HRT 213E — Greenhouse Crop Production
Approved Elective — (3 hours)

Semester IV

BIO 124B — Botany
HRT 214 — Fundamentals of Design and Landscaping
HRT 223 — Ornamental Crop Production
HRT 223D — Landscape Development
HRT 223P — Horticulture Pest Control and Chemicals

Suggested Electives: MMG 113B (Principles of Management), MMG 113C (Human Relations in Management), MMG 123 (Principles of Marketing), MMG 223R (Retail Merchandising), History, Government, BA 123A (Elementary Accounting).

PETROLEUM TECHNOLOGY CURRICULUM

Semester I

PT 113 — Petroleum Development
PT 113A — Introduction to Petroleum Industry
PT 113B — Petroleum Equipment Field Lab
ENG 113 — Composition and Rhetoric
MTH 113E — Applied Mathematics or MTH 123E
PSY 111 — Freshman Orientation

Semester II

PT 123 — Production Methods
PT 123A — Rotary Drilling
PT 123B — Oilfield Records
ELC 113P — Electronics for Petroleum Technicians
MTH 113 — College Algebra or MTH 123E

Semester III

PT 213A — Petroleum Laboratory Methods
PT 213B — Well Logging Methods
PT 213D — Petroleum Surveying & Drafting
MTH 113B — Trigonometry or MTH 113T
PHY 113 — Elementary Physics

Semester IV

PT 223 — Natural Gas Production
PT 223A — Completion Methods
PT 223C — Hydraulics for Petroleum Technology
ENG 223B — Technical Report Writing
GEO 114 — General Geology

RADIOLOGIC TECHNOLOGY CURRICULUM

FIRST YEAR

Semester I

ENG 113 — Composition and Rhetoric
XRT 111 — Nursing Procedures
XRT 112 — Clinical Practice I
XRT 113 — Radiologic Technology I
XRT 113A — Radiologic Physics I
XRT 113B — Anatomy & Physiology
PSY 111 — Freshman Orientation

Semester II

ENG 223B — Technical Report Writing
XRT 123 — Radiologic Physics II

XRT 123A — Radiologic Technology II
XRT 123B — Basic Related Science I
XRT 123C — Clinical Practice II

Summer Session I

XRT 114S — Clinical Practice III

Summer Session II

XRT 124S — Clinical Practice IV

SECOND YEAR

Semester III

XRT 213 — Clinical Practice V
XRT 213A — Basic Related Science II
XRT 213C — Radiologic Technology III
PSY 213 — Introductory Psychology
*Approved Elective

Semester IV

XRT 223 — Clinical Practice VI
XRT 223A — Radiologic Technology IV
XRT 223B — Basic Related Science III
*Approved Elective
*Approved Elective

Summer Session I

XRT 214S — Clinical Practice VII

Summer Session II

XRT 224S — Clinical Practice VIII

*Approved Electives: Sociology 213, Speech 223A, Government, BA 113T

REAL ESTATE MANAGEMENT CURRICULUM

Semester I

ENG 113 — Composition and Rhetoric
MMG 213 — Advertising and Promotion
REM 113 — Principles of Real Estate
REM 113D — Real Estate Math
REM — Real Estate Marketing
PSY 111 — Freshman Orientation

Semester II

DFT 123 — Drafting for Real Estate
REM 123 — Real Estate Law
REM 123A — Real Estate Finance
ENG 223B — Technical Report Writing
REM 223A — Real Estate Title Insurance, Abstract, Escrow and Closing

Semester III

REM 123B — Real Estate Appraisal I
REM 113B — Introduction to Land Records
REM 213C* — Real Estate Internship
or
REM 213B — Fire and Casualty I
BA 113 — Oil and Gas Law
SPH 223A — Business and Professional Speaking

Semester IV

REM 213 — Methods in Land Title Investigation
REM 223C* — Real Estate Internship

or
REM 223D — Fire and Casualty II
REM 223B — Real Estate Brokerage
REM 213D — Real Estate Appraisal II
**Approved Elective

*A student must have completed 18 semester hours of Real Estate classes in order to take a second internship.
**Suggested electives: AG 113G, AG 123B, BA 113A, BA 123A, DFT 123A, REM 213F, REM 223E.

RECREATION LEADERSHIP CURRICULUM
TENNIS TEACHING

Semester I
ENG 113 — Composition and Rhetoric
BA 113A* — Elementary Accounting
REC 113 — Individual Tennis Instruction
REC 112L** — Tennis Teaching Lab I
PSY 111 — Freshman Orientation

Semester II
ENG 123 — Composition and Rhetoric
BA 123A* — Elementary Accounting
REC 122L — Tennis Teaching Lab II
REC 123A — Scientific Approach to Tennis Teaching
REC 123G — Group Dynamics Tennis Instruction
REC 123S*** — Tennis Seminar II

Summer Session
REC 114S — Tennis Camp Lab

Semester III
BA 113B — Introduction to Business
PSY 213 — Introductory Psychology
SPH 113A — Speech
REC 213C — Tennis Camp and Club Management
REC 212L — Tennis Teaching Lab III
REC 213S*** — Tennis Seminar III

Semester IV
BA 213L — Business Law
SOC 213 — Introductory Sociology
FM 123 — Fashion Marketing
REC 223E — Contemporary Concepts in Tennis Instruction
REC 222L** — Tennis Teaching Lab IV
REC 223S*** — Tennis Seminar IV

*BA 214 may be substituted for BA 113A and BA 123A.
**Must be taken concurrently with a Tennis Seminar.

RESPIRATORY THERAPY TECHNOLOGY CURRICULUM
(Certification Option)

Semester I
RT 112 — Cardiopulmonary Anatomy & Physiology I
RT 113 — Basic Skills
RT 114 — Clinical Orientation
RT 114A — Technology I

MTH 113E* — Applied Math I
PSY 111 — Freshman Orientation

Semester II

RT 121 — Pediatric Care
RT 122 — Pharmacology I
RT 123 — Clinical Laboratory
RT 123A — Pathology
RT 124 — Technology II
BIO 114D — Anatomy and Physiology

First Summer Session

RT 114S — Clinical Experience I

Second Summer Session

RT 124S — Clinical Experience II

(Registry Option)

Semester I

RT 112 — Cardiopulmonary Anatomy & Physiology I
RT 113 — Basic Skills
RT 114 — Clinical Orientation
RT 114A — Technology I
MTH 113E* — Applied Math I
PSY 111 — Freshman Orientation

Semester II

RT 121 — Pediatric Care
RT 122 — Pharmacology I
RT 123 — Clinical Laboratory
RT 123A — Pathology
RT 124 — Technology II
BIO 114D — Anatomy & Physiology

First Summer Session

RT 113S — Equipment Instrumentation
ENG 113* — Composition & Rhetoric

Second Summer Session

RT 123S — Cardiopulmonary Anatomy & Physiology II

Semester III

RT 213 — Clinical Practice I
RT 213A — Pharmacology II
RT 214 — Technology & Care
BIO 114A — Microbiology
ENG 223B — Technical Report Writing

Semester IV

RT 223 — Clinical Practice II
RT 223A — Applied Cardiopulmonary Pathology
RT 223B — Management & Education
BIO 124D — Anatomy & Physiology
CHEM 113D — Elementary Chemistry

Third Summer Session

RT 212S — Seminar And Care Planning
RT 213S — Clinical Practicum I

Fourth Summer Session

RT 224S — Clinical Practicum II

*Student placement in English and Math are based upon the results of tests and subjects completed before admission.

SURVEYING CURRICULUM

FIRST YEAR

Semester I

SUR 113 — Introduction to Surveying
SUR 113A — Surveying Measurements Practice
ENG 113 — Composition & Rhetoric
MTH 113E* — Applied Mathematics I
CS 113C — Computer Literacy
PSY 111 — Freshman Orientation

Semester II

SUR 123 — Land Surveying
SUR 123A — Land Surveying Practice
ENG 223B — Technical Report Writing
MTH 123E* — Applied Mathematics II
Approved Elective**

*Student placement in mathematics classes is based upon the results of tests and subjects completed before admission.
**Approved Electives: Drafting 113A, Drafting 223D, Real Estate 113, Real Estate 123, Real Estate 213, Graphic Communications 113, History, Government.

SECOND YEAR

Semester III

SUR 213 — Topographic Surveying and Mapping
SUR 213A — Field Mapping Practice
MTH 113T — Trigonometry
SPH 223A — Business and Professional Speaking
DFT 213G — Computer-Aided Drafting

Semester IV

SUR 223 — Route Surveying
SUR 223A — Route Surveying Practices
SUR 223B — Legal Principles of Boundary Location
DFT 223B — Map Drafting
**Approved Elective

*Student placement in mathematics classes is based upon the results of tests and subjects completed before admission.
**Suggested Electives: DFT 113A, DFT 213G, REM 113A, REM 113B, History, Government.

VOCATIONAL NURSING (LVN) CURRICULUM

Semester I (16 Weeks)

LVN 111 — Personal & Vocational Adjustment I
LVN 111A — Nutrition
LVN 111B — Mental Health & Mental Illness
LVN 111C — Clinical Experience I
LVN 113 — Anatomy
LVN 113A — Pharmacology
LVN 113B — Maternity & Newborn Nursing
LVN 111D — Disease Control & Prevention
LVN 113S — Vocational Skills

Semester II (18 Weeks)

LVN 121A — First Aid
LVN 121B — Geriatrics
LVN 122 — Pediatrics Nursing - Normal Growth & Development

LVN 123 — Medical-Surgical Nursing I
LVN 128 — Clinical Experience II

Semester III (16 Weeks)

LVN 134 — Medical-Surgical & Personal Vocational Adjustments II
LVN 139 — Clinical Experience III

WELDING TECHNOLOGY PROGRAM CURRICULUM

FIRST YEAR

Semester I

WLD 113 — Physical Metallurgy
WLD 116 — Introduction to Welding Procedures
DFT 113A — Mechanical Drawing I
or
MTH 123E* — Applied Mathematics II
PSY 111 — Freshman Orientation

Semester II

WLD 123 — Welding Principles I
WLD 126 — Advanced Welding Procedures
DFT 123B — Mechanical Drawing II
MTH 113B* — Trigonometry
or
MTH 113T* — Applied Trigonometry

SECOND YEAR

Semester III

WLD 213 — Welding Principles II
WLD 216 — Pipe Welding
ENG 113 — Composition and Rhetoric
MMG 213B — Personnel Management

Semester IV

WLD 223 — Specialized Welding Techniques
WLD 226 — Specialized Welding Procedures
ENG 223B — Technical Report Writing
SPH 223A — Business and Professional Speaking

*Student placement is based upon the results of placement tests and subjects completed before admission.

TJC

Course Descriptions

Agriculture

A student majoring in agriculture should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

AGR 113 General Animal Husbandry (3-3) Introductory course designed to acquaint the student with the importance of livestock and livestock industry. Selection, reproduction, nutrition, management, and marketing of beef cattle, horses, swine and sheep. Labs will include breeds, market classes and judging. 010401

AGR 113B Dairying (2-3) A survey of the dairy industry and dairy products; basic principles and practices of modern dairy farm management; breeding, feeding and milk harvesting; laboratory will stress breeds, judging, sire selection, AI and equipment. 010501

AGR 113C Poultry Production (2-3) A general course in poultry, including types, breeds, poultry houses and construction, breeding, feeding, incubation and brooding, culling, diseases and parasites. 010601

AGR 113E Introduction to Agricultural Economics (3-0) Characteristics of our economic system and basic economic principles. Organization and management of the farm and ranch firm; structure and operation of the agricultural marketing system; functional and institutional aspects of agricultural finance. 011101

AGR 113F Farm Management (3-0) The application of business principles to the organization and management of farms and agri-businesses; enterprise selection, obtaining and using credit, farm records, resource allocation and decision making. 011053U

AGR 113G Landscaping (3-0) This course will acquaint the student with trees, shrubs, grasses, perennials and annuals suitable for landscaping the home. Biological classification, plant characteristics, best combinations, propagation methods, digging, bagging, transplanting, pruning and care will be studied. 010902

AGR 114A General Entomology (3-2) The study of the principal orders of insects; relation of anatomy and physiology of insects to control methods; integrated pest control programs; insecticides and their uses; life cycles and economic importance of more common insects with control measures for injurious species. 042101

AGR 123 Fundamentals of Crop Production (2-3) A study of the principles involved in crop production; structure and function of crop plants; classification, distribution, cultural practices, fertilization, harvesting, marketing; major world crops; importance of crop production in world affairs. 010201

AGR 123B Horticulture (2-3) A general study of horticulture; structure and growth of horticultural plants; principles and practices of propagation, fertilization, care, culture, harvesting of fruit and vegetable crops; propagation, care and use of ornamentals in the home landscape. 010801

AGR 123C Marketing of Agriculture Products (3-0) A study of the general principles, practices and problems involved in marketing farm products. 011201

AGR 123D Wildlife Management (3-0) A course designed to acquaint the student with the wildlife resources of the United States with special reference to Texas. Emphasis is placed on the inter-relationship of plants and animals in our environment with plans and methods of rehabilitation and increase of the desirable species. 070101

AGR 123G Floriculture For Home (3-0) Home beautification through the proper use of flowering plants, selection, culture and use of garden annuals, biennials, perennials, bulbs and home-plants; garden maintenance; use of fertilizers and composts; pest control; growing structures; and care of cut flowers. 010902

AGR 213 Methods of Animal Selection (3-3) A study of the origin, history and breed characteristics of livestock, including breed organization, performance testing and selection. Laboratory experiences will include the practical application of live animal evaluation and the development of livestock judging techniques. 010402

AGR 213A Pasture Management (3-0) A study of the production and management of forages; grasses and legumes adapted to East Texas; planting, fertilization, insect, disease and weed control; management for grazing or mechanical harvesting. 010203

AGR 213B Vegetable Gardening (2-3) This course consists of the practical methods and principles in home and commercial vegetable gardening. It will include the study of sites, soils, fertilizers and varieties that are adapted to this area. Lab work pertaining to vegetable growing will be carried on at an outside site. 010802

AGR 223 General Veterinary Science (2-2) An introduction to the physiology and anatomy essential to an understanding of the diseases of farm animals. Emphasis will be placed upon livestock sanitation, and prevention, control and eradication of diseases of farm animals. 010404

AGR 223A Farm Shop (1-4) This course involves the basic skills in arc and oxyacetylene welding, soldering, hot and cold metal work, sheetmetal work, cutting metal and brazing. Also concrete construction, farm plumbing and fitting of farm tools will be covered. 011001

Air Conditioning and Refrigeration 7221

Students successfully completing this program receive the Associate in Applied Science Degree.

The curriculum is designed to prepare the student to assist in planning, installing, operating and maintaining air conditioning equipment. The required technical information is presented and related skills are developed which will enable the graduate to function efficiently when working with engineers, system designers, skilled craftsmen, salesmen and others in the field.

Students in this program are required to furnish their own hand tools for use in laboratory classes.

AC 113 Introduction to Air Conditioning and Refrigeration (2-4) An introductory course designed to acquaint the student with practical heating and cooling problems, terminology and the study of psychrometric principles.

AC 113A Fundamentals of Refrigeration (2-4) An introduction to terminology, laws of refrigeration, processes and procedures associated with refrigeration applications.
Prerequisite: Taken concurrently with AC 113 or consent of the instructor.

AC 113D Fundamentals of Electricity (2-2) A study of electron theory, DC and AC circuits, single phase and three phase power distribution, capacitance, electric motors and motor controls. All of the material covered will be as it relates to the refrigeration and air conditioning industry.

AC 113S Solar Systems Design and Installation (2-4) An introduction to design, installation and maintenance of solar systems.

AC 123A Refrigeration Machines and Commercial Refrigeration (2-4) A study of refrigeration machines, their component parts and accessories, installation, maintenance and servicing procedures.
Prerequisites: AC 113A, 113D, 123B, or consent of the instructor.

AC 123B Blueprint Reading and Heat Load Calculation (3-0) A study of blueprints used in the construction industry and the use of blueprints to determine heat load and installation of heating and air conditioning equipment.

AC 123D Automatic Controls (2-2) A study of automatic controls, control systems, component parts and related equipment.
Prerequisite: AC 113D or consent of the instructor.

AC 213A Heating (2-4) A study of the principles of heating using gas, electric, hot water or steam systems. Also included is an introduction to the installation and service of heating equipment.
Prerequisite: AC 113D, AC 123B or consent of the instructor.

AC 223A Air Conditioning Systems Design (2-4) This course is a correlation of all elements or air conditioning applications and designs into a complete and applicable system.
Prerequisite: AC 123A or consent of the instructor.

AC 223B Installation and Maintenance of Air Conditioning Systems (2-4) A study of installation and maintenance procedures and problems of air conditioning systems. Consideration of sight selection and placement of related equipment components.
Prerequisite: AC 113A, AC 123B, AC 223A or consent of the instructor.

AC 223C Automatic Controls II (2-2) An advanced study of automatic controls, including pneumatic controls, modular controls, actuator controls, sequencer and step controls. Also included is an advanced study of wiring diagrams and schematics.
Prerequisite: AC 123A, AC 123D or consent of the instructor.

Art

A student majoring in art should see a Tyler Junior College counselor or a faculty advisor for help in completing a course. Students planning to transfer art credit on a bachelors degree are required to prepare and retain a portfolio of their work to facilitate their transfer.

ART 113D Design I (2-4) A study of all of the art elements and art principles with emphasis upon two-dimensional designs using a wide range of media and techniques. Text as well as lecture and laboratory study is included. 100201

ART 113E Drawing I (3-3) A basic course in drawing still lifes, landscapes and architectural subjects, with emphasis upon drawing skills including: line, value, proportion and perspective through the use of a wide variety of drawing media and techniques. Text as well as lecture and laboratory study is included. 100204

ART 114B Art for Pre- and Elementary School (2-4) A basic course for the students of preschool and elementary teaching in which they are introduced to the methods of teaching and using a wide variety of techniques and media in creative two- and three-dimensional projects. Text as well as lecture and laboratory study is included. 100201

ART 123D Design II (2-4) A continuation of Design I introducing three-dimensional design concepts. Text as well as lecture and laboratory study is included. 100201

ART 123E Drawing II (3-3) A continuation of Art 113E with emphasis on drawing the head and human figure using various media and techniques. Basic skeletal and muscular structure of the human figure as related to drawing is included. Text as well as lecture and laboratory study is included. 100204

ART 213 History of Art (3-0) A critical and analytical study of painting, sculpture, architecture and crafts, from prehistoric time to the end of the Middle Ages, through the use of slide illustrated lectures and text study. 100302

ART 213C Ceramics I Introduction To Ceramic Processes (3-3) Basic materials and techniques. Hand building, glazing and firing procedure, and introduction to the use of the potter's wheel. 100901

ART 213D Design III (2-4) An advanced investigation into a wide range of two-dimensional design problems using various media and methods. Emphasis is placed on technique and individual expression. 100201

ART 213E Drawing III (3-3) A life drawing course with emphasis on the structure and action of the human figure. Text as well as lecture and laboratory study is included. 100204

ART 213L Weaving I (2-4) Introductory course in weaving. Exploratory stud-

ies in the use of textiles as a form of art. Use of simple hand looms and introduction to operation of the floor loom. 100908

ART 213S Sculpture I (2-4) A basic study of various sculptural approaches using a wide variety of materials, including both additive and subtractive techniques. 100213

ART 2130 Painting I (2-4) An introduction to the problems of painting and composition, in oil and/or acrylic media. Subjects include color and value mixing charts, simple objects, still lifes and landscapes done in an objective and representational manner. 100209

ART 223 History of Art II (3-0) A critical and analytical study of painting, sculpture, architecture, and crafts from early Renaissance time to the present, through slide illustrated lectures and text study. 100302

ART 223C Ceramics II (3-3) Problems in ceramics. Personal and professional development in forming and decorating techniques. Emphasis on mastery of potter's wheel and glaze calculation. 100901

ART 223L Weaving II (2-4) A continuation of Art 213L. 100908

ART 2230 Painting II (2-4) A continuation of Art 2130 with emphasis on more creative and experimental areas of painting including the development of painting styles. A wide range of subjects and techniques including abstraction and non-objective art are introduced. 100209

ART 223W Water Color Painting (2-4) An introduction to the water color medium as a means of artistic expression in the interpretation of still lifes and landscapes done in a representational manner. 100210

Astronomy

A student majoring in astronomy should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

AST 113 A Survey of Astronomy (3-0) The main features of the known universe and the principles involved in their discovery. A non-mathematical survey recommended for all students. 191101

AST 123 A Survey of Astronomy (3-0) A continuation of Astronomy 113. 191101

Banking 5626

Students successfully completing this program receive the Associate In Applied Science Degree in bank management.

The banking curriculum is designed to provide a student the opportunity to complete various American Institute of Banking diplomas while pursuing the Associate Degree. The banking community assists the educational opportunity by recommending qualified teachers and selecting appropriate textbooks for all A.I.B. courses.

BM 111A Loss Prevention (1-0) This seminar focuses on check cashing, check swindles, bank holdups and security procedures.

BM 111B Bank Management by Objective (1-0) This middle management seminar is designed to assist bank officers in learning how to translate bank problems into realistic goals, for the individual and the bank, through the management-by-objectives system. Cases and outside readings are used in this seminar. This course can be presented as a brief, intense workshop or as an eight-session seminar.

BM 111D Safe Deposits (1-0) This course covers the rules and procedures of safe deposits. The importance of good customer relations, safe deposit security and legal concerns are addressed. The course materials serve as an on-the-job reference guide after the program is completed.

BM 111E Banking and Electronic Funds Transfer (1-0) Informational in nature, this course is not intended as a "how to" guide. It is more a "how-to-be-comfortable-with" short course designed to provide students with an overview of the EFT arena, and understanding of the scope and complexities of EFT, and a realization of

the services and functions allowed through the various EFT products.

BM 111M Mortgage Loan Processing and Underwriting (1-0) Concentrating on lending practices for one-to-four-family residences, this course takes the student through all the essential underwriting processes and provides information on consumer compliance regulations. This course is particularly useful for dealing with the rapid growth of the secondary mortgage market, which requires bankers to be especially knowledgeable about standards and documents.

BM 111S Selling Bank Service (1-0) This course is designed to teach sales techniques to customer contact personnel that will result in new business for a bank and encourage present customers to broaden the range of bank services they use. Emphasis is on identifying customer needs for a bank transaction or from conversation with the customer, and suggesting the appropriate service to the customer.

BM 111T Supervisory Training (1-0) The goal of this course is to transmit managerial skills and concepts to first-line supervisors by integrating sound managerial concepts with practical experience. Application of managerial skills to the job situation of the new supervisor is emphasized.

BM 111W Written Communications for Banks (1-0) Utilizing a "thought pattern development" approach, this course addresses the logical organization and writing of letters and reports. Orienting the letter or report to the purpose and recipient is emphasized as a means of getting results from written communications.

BM 112S Oral Communications for Bankers (2-0) This course addresses identification and analysis of the message and the respondent, and focuses on personal communications trouble spots. Using cross-evaluation and peer reaction, emphasis is on both the goal of the communication and the reaction of the listener.

BM 113 Principles of Banking (3-0) This course presents the fundamentals of bank functions in a descriptive fashion so that beginning bankers may view their chosen profession in a broad (and operational) perspective.

BM 113B Savings and Time Deposit Banking (3-0) This course reflects recognition of the fact that a knowledge of the historical development of savings institutions and an awareness of the basic economic function of the saving process are necessary for an understanding of the current operations and policies of these institutions. It begins with a review of the economics of the saving process in order to clarify differences between financial savings by individuals or organizations and real savings that appears as capital formation. Different types of financial savings are reviewed in order to describe the system of financial flows of income to capital investment.

BM 113C Deposit Operations (3-0) This course examines the deposit operations of banks in the context of the U.S. payments system. It explores how banks operate relative to their deposit-taking activities and management of deposited funds. Emphasis is on system rather than product or instrument. Also studied is the impact of the external environment on determining why banks operate the way they do. Government rules and regulations and the future of America's payment mechanisms are also covered.

BM 113F Statement Analysis (3-0) This course teaches some of the basic concepts and skills of statement analysis. It lends itself more to a "how to" hands-on approach for immediate use within the job function.

BM 113S Corporate Banking (3-0) This course, directed toward the executive level, concerns itself partly with a statement and a discussion of factors influencing and determining loan policy. Methods of credit investigation and analysis, credit techniques, specific credit problems, and regular, as

well as unusual types of loans are discussed.

BM 122 Loan and Discount (2-0) This seminar teaches bank employees the essential facts about promissory notes, including calculating interest and discounting commercial paper; guaranties; general collateral agreements; examining and processing documents accompanying notes secured by stocks, bonds and savings account passbooks, and the concepts of attachment, perfection, priority, default and foreclosure.

BM 123E Credit Department Management (3-0) Building on the basic principles of the credit function, this new course teaches the essential concepts necessary for credit professionals in banks of all sizes to strengthen their portfolio. The course emphasizes practical application to the student's job situation.

BM 123S Money and Banking (3-0) This course stresses the practical aspects of money and banking and emphasizes the basic monetary theory needs by banking students to apply their knowledge to a particular job. Historical treatment has been kept to a minimum. Emphasis is also placed on such problems as economic stabilization, types of spending, the role of gold, limitations of central bank control, government fiscal policy, balance of payments, and foreign exchange, showing their repercussions on the banking industry in affecting yield curves and the structuring of portfolios.

BM212C Introduction to Commercial Lending (2-0) This course provides an overview of the commercial lending function. It is targeted to management trainees and junior management, and is divided into four sections: commercial lending overview, the lending process, portfolio management and regulation and business development. Some specific topics: the commercial loan customer, types of commercial loans, the loan decision process (information gathering, analysis), cost analysis, control and profitability, and the regulatory and legal environment.

BM 213 Bank Investments (3-0) Because a bank's needs for primary reserves and loanable funds limit the funds available for investment, this course describes the nature of such funds and how their uses are determined. It also analyzes the primary and secondary reserve needs of commercial banks, the sources of reserves, and their random and cyclical fluctuations, showing the influence of these factors on investment policy. This analysis is followed by a study of yield changes as they affect a bank's long-term holdings.

BM 213A Bank Management (3-0) This course presents new trends which have emerged in the philosophy and practice of management. The study and an application of the principles outlined provide new and experienced bankers with a working knowledge of bank mangagement.

BM 213B Trust Business (3-0) This new course presents a complete picture of the services rendered by institutions engaged in trust business. Providing an introduction to the services and duties involved in trust operations, the course is intended for all bankers, not only those who are engaged in trust business. It endeavors to keep clear the distinction between business and legal aspects of trust functions.

BM 213D Trust Management (3-0) This course describes the organization, operation, and services of the trust department. Some specific topics covered in the course are: the board of directors, department accounting, trust investments, tax administration, business development and personal development, trust profitability, and issues in trust department management. The course is targeted to trust officers currently employed in a particular trust activity.

BM 213E Inside Commercial Banking (3-0) The purpose of this course is to identify topics and issues which bankers must be prepared to address and discuss in the quest for solution and responses. Coverage includes: a his-

torical overview of American banking, the constituencies of commercial banks, effective management, sources of bank funds, uses of funds, retail banking, use of funds, wholesale banking, electronic funds transfer system, multinational banking, specialized service areas, regulatory constraints and the new world of banking.

BM 213F Asset and Liability Management (3-0) This short overview program is designed to acquaint bankers with the elements of asset/liability management. It promotes an understanding of the origins, necessities and operations of proper asset/liability management techniques.

BM 213G Loan Officer Development (3-0) Focusing on people-skills and problem-solving, this program offers comprehensive training in the subjective skills and judgment-forming abilities needed throughout the lending process, such as interviewing, listening and remembering, decision-making under conditions of uncertainty and time-pressures, persuasion and negotiation, and supporting conclusions and recommendations with sound evidence and reasoning.

BM 213H Negotiable Instruments and Payment Mechanism (3-0) This course examines the legal structure that is implicit in the normal course of bank operations. Many of the legal situations that occur in the deposit, collection, dishonor and return, and payment of checks are explored. Also addressed are the legal relationship of the various parties in bank collection channels and between a bank and its depositors.

BM 222J Bank Cards (2-0) This course presents an overview of the bank card industry with the dual objectives of helping the student understand the role of the bank card in the economy as well as the basic operational problems involved in the successful management of a bank card plan. The interrelated nature of the various bank card functions is emphasized. Topics covered are the types of credit cards in use and their functions and histories; the cardholder's profile, attitudes and behavior; and credit-card operations — marketing, authorization, customer service, cost analysis and control, collection policies and procedures, and security and fraud. Also discussed is the evolution of credit cards into electronic funds transfer, legal developments affecting credit cards and the regulatory environment in which banks operate their card business.

BM 223 Installment Credit (3-0) In this course, the techniques of installment lending are presented concisely. Emphasis is placed on establishing the credit, obtaining and checking information, servicing the loan and collecting the amounts due. Other topics discussed are inventory financing, special loan programs, business development and advertising and the public relations aspect of installment lending.

BM 223A Analyzing Financial Statements (3-0) Characteristics of financial statements and financial statement analysis are presented in this course. The first section serves as a useful review of basic accounting principles for those students who have studied accounting. For those who have not, this section provides the minimum accounting background necessary for profitable study of financial statement analysis.

BM 223B Bank Management II This course emphasizes planning. Topics include retail analysis of bank performance, interest margin management, cost and pricing of bank services, strategies to expand bank services and extensive case analysis to integrate the text material in Bank Management I and II.
Prerequisite: Bank Management I.

BM 223E Law and Banking (3-0) An introduction to basic American law, presenting the rules of law which underlie banking. Topics include jurisprudence, the court system and civil procedure, contracts, quasicontracts, property, torts and crimes, agencies, partnerships, corporations, sales of personal property,

commercial paper, bank deposits and collections, documents of title and secured transactions. Emphasis is on the Uniform Commercial Code.

BM 223G Marketing for Bankers (3-0) This course discusses the basics of public relations, both internal and external, and seeks simply to explain the why, the what and some of the how of public relations and marketing. It is intended as an overview for all bankers in terms of what everyone in banking should know about the essential of bank public relations and marketing.

BM 223H Management of Commercial Bank Funds (3-0) This course deals with those necessary principles from which the student can derive an adequate philosophy of funds management. Differences between practices in large banks and smaller institutions are illustrated for course institutions of all sizes.

BM 223S Federal Regulation on Banking (3-0) Incorporating the pervasive and significant changes that have occurred in banking regulation in recent years, this newly, updated course looks at the "why" and "what" of federal bank supervision. Emphasis is placed on the federal government's influence on bank operations through fiscal and monetary policy decisions.

Bible

Bible courses for college credit at Tyler Junior College are taught in the Baptist Bible chair, Wesley Foundation Methodist Bible chair and the Church of Christ Bible chair.

The granting of college credit for such courses is on the following basis:

1. All such courses must be based upon comprehensive syllabi approved by Tyler Junior College.
2. Such courses may not be taught from a sectarian view point but must be historical or literary in nature.
3. The teacher of such courses must meet the same standards of academic preparation as required of teachers in other academic disciplines of the College.
4. A maximum of 12 semester hours will be accepted toward a degree.

A student majoring in Bible should see a Tyler Junior College counselor for help in completing a course plan.

BIB 111 Selected Studies in the Old Testament (1-0) A brief course of study involving either an Old Testament book or theme.

BIB 111A Selected Studies in the New Testament (1-0) A brief course of study involving either a New Testament book or theme.

BIB 111B Selected Studies in Church History (1-0) A brief course of study involving either a general synopsis of church history, a particular era of church history or a history of the Bible.

BIB 111C An Introduction to Christianity (1-0) A brief course of study involving theological terms, great Bible themes and a comparison of Christianity with other religions.

BIB 113 Survey of the Old Testament (3-0) A foundation course in the history, literature and teachings of the Old Testament.

BIB 123 Survey of the New Testament (3-0) A foundation course in the history, literature and teachings of the New Testament.

BIB 213 Life and Teachings of Jesus (3-0) A study of the life and teachings of Jesus Christ as viewed from the perspective of the writers of the Gospels.

BIB 223 Life and Letters of Paul (3-0) A study of the ministry and thoughts of Paul as found in the Acts of the Apostles and Paul's letters.

BIB 223A World Religions (3-0) An interpretation of the fundamental insights, concepts, ideals, and customs of the major religions of the world.

BIB 113G Bible Topics (3-0) A course involving different Bible topics each semester. May be repeated for credit as topics change.

Biology

A student majoring in biology should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

BIO 114A Microbiology (3-3) A study of the characteristics and activities of microorganisms and their relation to health and disease. 041101

BIO 114C Introductory Biology I (3-3) A survey of structures and functions common to living forms. This course also includes the principles of cell biology, classification, reproduction evolution and ecology. 040101

BIO 114D Anatomy and Physiology (3-3) A study of the anatomy and physiology of the human body. It emphasizes biological terms and principles as applied to man that are oriented toward the allied health sciences. 041001

BIO 114M Biology I (3-3) Surveys cellular processes, tissues and organ systems similar to all life forms. Greater emphasis is put on the importance of chemistry to life. Designed for the science major. 040101

BIO 124B General Botany (3-3) An introduction to the plant kingdom with emphasis on the importance of plants to man. 040201

BIO 124C Introductory Biology II (3-3) This course places emphasis on the development, structure and function of the organ systems of man. Also included are principles of heredity, ecology and evolution as applied to man. Prerequisite: Biology 114C 040101

BIO 124D Anatomy and Physiology (3-3) A continuation of Biology 114D. Prerequisite: Biology 114D. 041001

BIO 124M Biology II (3-3) A survey of vertebrate systems with special emphasis on man. Also included are principles of heredity, ecology and evolution as they apply to man. Designed for the science major. Prerequisite: Biology 114M 040101

BIO 224 Comparative Vertebrate Anatomy (3-4) A comparative study of the morphology, physiology and phylogenesis of vertebrate organ systems. Required of predental, premedical and biology majors. Prerequisite: Biology 114M and 124M or 124B. 041201

Business Administration

BA 113 Oil and Gas Law (3-0) A course designed for those employed in petroleum production, leasing, scouting and other oil industry activities. 050154U

BA 113A Elementary Accounting (3-0) This course covers fundamental principles of double entry bookkeeping. Emphasis is given to accounting cycles for service and mercantile businesses. Areas covered include journals, ledgers, trial balance, worksheet, adjusting and closing entries.

BA 113B Introduction to Business (3-0) A general business course designed to give the student an understanding of the fundamental principles of business operation. 050101

BA 113D Business Mathematics (3-0) This course covers the simpler exercises and problems of everyday business calculations — including such topics as the use of aliquot parts, practice on short methods of calculation, fractions, percentage, interest and discount, bonds, depreciation, social security, taxes, property taxes, insurance and stocks. 170101

BA 123A Elementary Accounting (3-0) A continuation of BA 113A. Emphasis is given to receivables, payables, merchandise, deferrals, accruals, plant assets, depreciation, systems and control, and payroll. A practice set is included. Prerequisite: Business administration 113A

BA 213L Business Law (3-0) This course emphasizes a study of principles and elements of contracts, sales and warranties, legal aspects of commercial papers, employer-employee relationships, principal-agent relationship, labor law and government-business relationships, and various business entity concepts. 050103

BA 214 Principles of Accounting (3-3) A study including these areas: fundamentals of double-entry bookkeeping, the accounting cycle for service

and merchandise businesses, journals, ledgers, worksheets, adjusting, closing, and reversing entries, receivables and payables, payroll accounting, depreciation and other asset valuations. Partnership accounting is introduced. A practice set is required. 050201

BA 224 Principles of Accounting (3-3) A continuation study of BA 214 including these: corporation accounting with emphasis on common and preferred stocks, bonds, and investments, departments and branches, cost systems, standard costs and budgeting, special analysis of financial statements, working capital, cash flow and consolidated statements, and managerial decisions based on accounting data. 050201
Prerequisite: BA 214

Chemistry

A student majoring in chemistry should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

CHM 113B Basic Chemistry (3-0) A course for students with little or no chemistry or science background. Covered are fundamental principles of chemistry and related mathematics. This three lecture hours per week for one semester course may not be counted in lieu of other chemistry courses listed. 190101

CHM 113D Elementary Chemistry (3-2) This one semester course covers elementary inorganic, organic and biochemistry. It is especially suited to those persons interested in dental hygiene and respiratory therapy.
Note: Neither Chemistry 114I -124I, nor 113D can be substituted for Chemistry 114-124 in meeting prerequisites in scientific curricula. 190501

CHM 114 General Chemistry (3-4) A course serving the prerequisite requirement for engineering, medicine, dentistry and other professional courses requiring advance work in chemistry. Laboratory work includes introduction to quantitives and volumetric analysis. 190502

CHM 114I Introductory Chemistry (3-3) A non-technical course which meets the needs of students who do not expect to specialize in science, engineering or medicine. The course content is devoted to a survey of the principles of inorganic chemistry. 190501

CHM 124 General Chemistry (3-4) A continuation of Chemistry 114, requiring study of equilibrium, acid-base concepts and qualitative analysis.
Prerequisite: Chemistry 114. 190502

CHM 124I Introductory Chemistry (3-3) A continuation of Chemistry 114I. Subject matter includes an introduction to the fields of organic and biochemistry.
Prerequisite: Chemistry 114I. 190501

CHM 214 Organic Chemistry (3-4) An introduction to the chemistry of the compounds of carbon with emphasis on energy and mechanism of reaction, synthesis and the structure of organic molecules. Laboratory work offers opportunity for students to familiarize themselves with typical organic reactions and gas chromatography.
Prerequisite: Chemistry 124.

CHM 224 Organic Chemistry (3-4) A continuation of Chemistry 214. Laboratory work offers opportunity for students to familiarize themselves with infrared spectroscopy.
Prerequisite: Chemistry 214.

Computer Science 6021

The College offers one and two-year programs leading to Certificates of Proficiency and a two-year program leading to an Associate in Applied Science Degree.

The one-year program leading to a Certificate of Proficiency prepares the student for employment in the fields of computer operations, data preparation and data entry.

The two-year program leading to a Certificate of Proficiency prepares the student for employment in a business programming environment. To qualify for this certificate, the student must safisfactorily complete the computer science courses offered in the two-year degree

program.

The two-year program leading to the Associate of Applied Science Degree serves the multiple tasks of preparing the student for employment as a programmer in a business environment and may be applied to help satisfy the requirements for advanced study.

A student seeking a four-year degree should see a counselor for academic advisement.

CS 112 Data Entry I (1-2) This is a preparatory course for data entry into the computer with emphasis on video display units, plus fundamental instruction procedures for data entry.
Prerequisite: High school or college typing course or concurrent enrollment in BA 113T.

CS 112B Introduction to Computer Operations (2-1) A course in computer operations to acquaint students with various types of operating systems, procedures and disk utilities.

CS 113A Introduction to Computers (3-0) An introductory course to acquaint students with basic concepts of computers in today's world.

CS 113C Computer Literacy (3-3) An introductory course designed to give the student an in-depth study of the operations and use of a micro computer. The course coverage also includes "hands-on" practices and use of major software packages. Taught as CS 223E in 1983-84.

CS 113L Introduction to Computer Programming Logic (3-0) An introduction to beginning programming techniques. Basic input/output operations, program design, flowcharting and record layouts will be taught. Emphasis will be on structured design.
Prerequisite: CS 113A or concurrent enrollment or consent of instructor.

CS 122 Data Entry II (1-2) A course designed to attain proficiency in operating video display unit, verification of input and information retrieval; emphasis on accuracy and volume.
Prerequisite: Data Entry I (CS 112) with a speed and accuracy of 3,000 strokes.

CS 123B Computer Operating Systems (3-3) A course of individual instruction and operations of computer operating procedure; study of supervisor job control, link edit, file maintenance and compilations.
Prerequisite: CS 112B

CS 123C Management Computer Use (3-0) A study of computer equipment and techniques designed specifically to create better communications between non-technical management and computer technicians at all levels. In addition, computer implications for business and society are investigated.

CS 123E Computer Programming Assembly Language (3-3) A detailed study of assembler language programming utilizing data manipulation, editing, control macros, debugging and advanced programming techniques.
Prerequisite: MTH 113 or concurrent enrollment and CS 113L or consent of the instructor.

CS 123L Advanced Computer Programming Logic (3-3) A continuation of study of programming skills using a structured language.
Prerequisite: MTH 113 and CS 113L or concurrent enrollment.

CS 213A Computer Programming COBOL (3-3) Business report preparation through the use of structured ANSI COBOL are taught. The course stresses the use of basic COBOL Module Statements which are available in all standard COBOL compilers. Several COBOL programs are written, compiled, debugged, documented and put into operation by the student.
Prerequisite: MTH 113, CS 123E or consent of the instructor.

CS 213B Systems Analysis (3-0) This course covers business systems fundamentals, basic communications skills, data collection and analysis, systems planning — alternatives, feasibility and proposal.
Prerequisite: CS 113A or consent of instructor.

CS 213C Introduction to Computer Hardware (3-0) This course is designed to acquaint the computer programming and operations personnel with the hardware aspects of computers and the relation between software and internal circuitry and logic. A programming language is introduced and selected instructions and operations are followed from the problem conception through the functioning of the hardware.
Prerequisite: CS 113A or consent of the instructor.
Note: Credit may not be received for both CS 123S and CS 213C.

CS 213F Computer Programming BASIC Language (3-3) This course is a detailed study of BASIC Language Programming. Concepts include BASIC instruction, commands, programming logic, functions and interactive programming.
Prerequisite: CS 113L and MTH 113 or consent of the instructor.

CS 213R Computer Programming RPG II Language (3-3) This course is an introduction to Business Programming using RPG II Language. Covered are file descriptions, input operations, calculations, output operations, array and table handling specifications and file updating using sequential and index sequential access method files.
Prerequisite: CS 113L, MTH 113 and at least one previous language or consent of the instructor.

CS 213S Survey of Computing (2-4) This course is designed to acquaint the electronics technician with the non-hardware aspects of the computer and how these relate to the internal circuitry and logic. Machine, assembly and a high level programming language are introduced and selected instructions and operations are followed from the problem conception through the functioning of the circuitry.
Prerequisite: ELC 123 or consent of the instructor.
Note: Credit may not be received for both CS 213S or CS 213C.

CS 223A Advanced Computer Programming COBOL (3-3) An advanced study of the structured COBOL Language with emphasis on file maintenance, structures and systems designed to achieve the greater efficiency from interaction of the programs and utilities necessary to a complete system. Students are required to write, compile, test and document several programs.
Prerequisite: CS 213A or consent of the instructor.

CS 223B Systems Analysis II (3-0) A continuation of CS 213B covering specialized techniques involving system cost determination, design, file and data base organization, and project management and control.
Prerequisite: CS 213B or consent of instructor.

CS 223C Computer Programming FORTRAN (3-3) Detailed study of FORTRAN Programming. Concepts include basic instructions, functions and subprograms. Students are required to code, document, compile, test and debug several programs.
Prerequisite: CS 113L, MTH 113 or consent of instructor.

CS 223G Advanced Computer Programming BASIC Language (3-3) This course will include advanced topics in BASIC Programming such as file structures and file manipulation, interactive programming, screen and print formatting, menus, chaining and string arithmetic.
Prerequisite: MTH 113, CS 213F or consent of the instructor.

CS 223X Special Topics (3-0) Topics taught in this course will be at the discretion of the department and will reflect the current practices and equipment in the computing field.

Criminal Justice 7021

Students successfully completing this program receive the Associate in Applied Science Degree.

This course provides a survey of police problems, crime trends and statistics, organization and jurisdiction of local, state and federal enforcement agencies. Surveys of professional opportunities and personal qualifications are studied. The

course is a basic orientation designed to provide the student with a complete evaluation of the European and American police systems. The student is introduced to a general history of police systems which serves as a frame of reference in analyzing trends in the modern police service.

CJ 113 Introduction to Criminal Justice (3-0) The philosophy and history of criminal justice is studied including a survey of police problems and crimes. Organization and jurisdiction of local, state and federal enforcement agencies and a survey of professional qualifications and opportunities are also studied.

CJ 113B Police Organization and Administration (3-0) The principles of organization, administration and functioning of police departments are studied. This includes personnel policies, operating division policies and command of the department as a whole.

CJ 113C Probation and Parole (3-0) This course is designed as an introduction to the many faceted subject of criminal corrections. Through this survey course the student will be exposed to the historical development of this integral part of today's criminal justice system.

CJ 123B Police Role in Crime and Delinquency (3-0) Juvenile criminal behavior will be studied to provide an insight into casual factors, precipitating forces and opportunities for the commission of criminal or delinquent acts. The techniques, responsibilities and capabilities of police organization in the area of deliquency prevention will be developed.

CJ 123C Patrol Administration (3-0) This course is designed so that the student may have an overview of the role of the patrol function in today's society. Students will acquire a basic philosophy and history of systems dealing with patrol functions and study the principles of organization and function of the patrol operation.

CJ 123D Criminology (3-0) The study of deviant behavior as it relates to the definition of crime, crime statistics, theories of crime causation and crime typologies.

CJ 213A Criminal Investigation (3-0) Theories and concepts of the investigator's role in modern criminal investigation are studied. Basic skills necessary in conduction and investigation, developing sources of information, the collection and preservation of evidence and preparation of reports are developed.

CJ 213B Legal Aspects of Criminal Justice (3-0) This course covers a brief history and philosophy of modern law which includes the structures, definition and application of commonly used penal statutes and leading case laws. It also includes a review of the elements of crimes, laws and arrest, search and seizure.

CJ 213C Criminalistics (3-1) Theories and concepts of the police laboratory in a modern police department are studied. Training in preservation of evidence, fingerprinting and other police laboratory equipment is emphasized.

CJ 223B Traffic Planning and Administration (3-0) This course is designed to provide the student with an understanding of the magnitude and complexities of the traffic problem. On successful completion students will have a working knowledge of the methods and techniques used by the various agencies to eliminate or to control these problems. This course will enable students to evaluate any program with which they may come in contact and will also put them in a position to offer constructive criticism and remedies.

CJ 223C Criminal Procedure and Evidence (3-0) This course is an introduction to the rules governing the admissibility of evidence and types of evidence. Also covered will be criminal procedure in various courts, review of the Texas Code of Criminal Procedure, including laws or arrest, search and seizure, and leading case laws on each topic.

CJ 223D Police Community Relations (3-0) Studied are the role of the individual officer in achieving and main-

taining positive public response, inter-group relations and public information.

CJ 223E Police Defense Tactics (3-3) This course is designed to provide the student an opportunity to acquire knowledge of the art of police defense tactics. Emphasis is placed on firearms, come-along holds, self-defense techniques, baton techniques, search of prisoner techniques, basic exercises, range procedures and the F.B.I. Pistol course.
Prerequisite: Criminal Justice sophomores in the last semester must be medically qualified for police work. Students provide their own weapons. Ammunition will be furnished by the school. No person with a felony conviction will be allowed to enroll in this class.

Dance

A student majoring in dance should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

DNC 111C Introduction to Dance (0-3) This course is an introduction to the art of dance through participation and instruction in a variety of dance activities and techniques. 100801

DNC 121C Introduction to Dance (0-3) A continuation of DNC 111C. 100801

DNC 113 Modern Dance (2-1) This course includes instruction and participation in modern dancing as part of the performing arts. Exploring individual potential using self-awareness techniques in the areas of structure and alignment; breathing and relaxation; imaging and improvisation. 100802

DNC 113A Modern Dance II (2-1) Instruction in modern dancing is continued. Concepts of partnering are introduced along with solo and group work.
Prerequisite: Dance 113 100802

DNC 123 Jazz (2-1) This course includes instruction and participation in jazz dancing as part of the performing arts. Also covered is exploration of jazz technique with focus on style, rhythm and dynamics. 100802

DNC 123A Jazz II (2-1) Instruction in style, rhythm and dynamics of jazz dancing is continued. Concepts of solo and group work are introduced.
Prerequisite: Dance 123 100802

DNC 211C Appreciation of Dance (0-3) This course covers basic fundamentals and interpretations of dance; also, the principles and applications applied to the interpretation of modern and conventional dance. 100803

DNC 221C Appreciation of Dance (0-3) A continuation of DNC 211C. 100803

DNC 213 Ballet (2-1) This course includes instruction and participation in ballet as part of the performing arts, plus exploration of ballet technique with emphasis on a long series of movements, beats, adagio, jumps, etc. Clarity of the movement is stressed as well as precision in execution. 100802

DNC 213A Ballet II (2-1) Ballet technique is continued. Variations from the classical and neo-classical repertoire are introduced.
Prerequisite: DNC 213 100802

DNC 213B Intermediate Ballet I (2-1) The development of ballet technique is continued. More complicated exercises at the barre and centre floor are included. Precision of movement is stressed.
Prerequisite: DNC 213A 100802

DNC 213C Intermediate Ballet II (2-1) This course begins pointe for women. Specialized beats and tours are begun for men. Individual proficiency and technical virtuosity are developed. 100802
Prerequisite: DNC 213B.

DNC 223A Folk Dance (2-1) This course includes instruction and participation in folk dance as part of the performing arts, plus exploration of dance styles from the past — from America and other cultures. 100801

DNC 223B Folk Dance II (2-1) Students will concentrate upon dance styles from one or more eras from America, Europe or Africa.
Prerequisite: DNC 223A 100801

DNC 223 History and Appreciation of Dance (3-0) A history of primitive, classical and contemporary dance forms. 100803

Dental Hygiene 8034

This program provides a two-year course of theoretical and professional training at the college level, leading to the degree of Associate in Applied Science in dental hygiene and to the State and National Board examinations for licensure.

The student engages in occupational training to perform clinical services contributing to the maintenance of good oral health. Skills are developed to provide dentists with the aid which will allow them more time for the treatment of patients. The student will develop a sense of personal responsibility to the dental profession and society.

Twenty-eight places are allotted annually to the candidates whose scholastic and technical aptitudes show the most promise for success in the study of dental hygiene. Considerable weight will be placed on high school and college transcripts and scores on the ACT or SAT.

Since enrollment in this program is necessarily limited, those applying for admission must make their application directly to the director of this program.

A dental hygiene student cannot continue to the next semester if he/she does not maintain a minimum of a "C" average in each required course and cannot graduate without a minimum of a "C" in every course. A minimum grade of 75 will be required for a "C" in dental hygiene courses.

DH 113R Dental Hygiene Radiography (2-3) The course is designed to acquaint the student with the principles of X-ray, accepted X-ray techniques, safety precautions for the patient and operator, and processing and mounting procedures. Bisecting angle and paralleling techniques are demonstrated and practiced with the usage of radiographic surveys incorporated into the total patient treatment plan.

DH 114 Oral Anatomy and Physiology (3-2) This course is designed to acquaint the student with the normal clinical appearance and functions of anatomical structures of oral cavity, head and neck.

DH 114C Dental Hygiene Clinic (2-6) This course is designed to acquaint the students with the operatory, to teach the theory and principles of instrumentation, and all other supplementary procedures.

DH 122A Pathology (2-0) This course will enable the student to demonstrate a basic knowledge of pathological terminology, general principles of pathology and diseases of the human body with terminology, general principles of pathology and diseases of the human body with emphasis on pathological conditions most relevant to the practice of dental hygiene.

DH 124C Dental Hygiene Clinic II (1-9) Practical application of the principles learned in Clinic I begins with clinical practice on patients. Basic instrumentation principles are practiced and other supplementary procedures are demonstrated and put into practice as students see patients.

DH 123 Oral Histology and Embryology (3-0) This course is designed to enable the student to identify and understand the microanatomy of the structures of the oral cavity, their development and function.

DH 211G Graphics and Audio Visuals (1-1) This course will aid the student in understanding the basic principles of planning, design, lay-out and other audio-visual aids, in order to demonstrate proficient skills in graphics and use of audio-visual equipment.

DH 212 Pharmacology (2-0) This course will acquaint the student with the basic concepts of pharmacology and its relationship to dentistry.

DH 212D Clinical Nutrition (2-0) This course will aid the student in understanding the basic concepts and scientific knowledge concerning nutrients and food with specific emphasis on nutrition in dentistry and its effect on the oral and para-oral structures.

DH 212H Community Dental Health I (2-1) A study of methods of materials

used in dental health, including the basic principles of education and the psychology of learning and motivation with special emphasis on community service projects. This will enable the student to be qualified to serve as a dental health educator to patients in the practice of dental hygiene, teaching in a school system and in the community.

DH 212P Periodontology (2-0) This course is designed to enable the student to understand and recognize the anatomy and physiology of the normal periodontium, the etiology of periodontal disease, and preventive periodontal practices.

DH 214 Dental Materials (3-2) This course will enable the student to satisfactorily identify and understand the properties, manipulation, application and maintenance of the materials used in dentistry.

DH 215C Dental Hygiene Clinic III (1-13) Application of principles and skills are developed which are learned in Clinic I and Clinic II. Students will demonstrate instrumentation proficiency and supplementary procedures on a specified number of patients.

DH 221S Seminar (1-0) This course is designed to aid the students in learning how their course work is clinically oriented. Students are also encouraged to discuss clinical problems and situations to which solutions may be found by open discussion.

DH 225C Dental Hygiene Clinic IV (1-13) A continuation of Clinic III.

DH 223H Community Dental Health II (2-2) A continuation of Community Dental Health I.

Developmental Studies

Courses numbered lower than 100 will not count toward graduation on an associate degree.

DST 093 Introduction to Natural Sciences (3-0) A developmental course for the non-science major utilizing selected topics of biological science, principally related to the anatomy and physiology of man. Programmed, self-paced materials may be utilized to allow students to progress at their own rate. 040091

DST 083 Introduction to Fine and Applied Arts (3-3) An introductory course designed to give the student a fundamental understanding of the creation and appreciation of diverse modes of communicating ideas and emotions through different media, within the context of fine and applied arts. Provision for special activities (special projects, field trips, etc.) will ensure that a culturally heterogeneous student group may concentrate on building upon, learning and sharing expressive experiences unique to the student's cultural heritage. 100091

DST 073 Developmental Speech (3-0) An introductory course emphasizing structure and different techniques of presentation, as well as principles and methods of discussion. The course is designed to identify deficiencies and strengths, and to develop and improve interpersonal skills and the student's ability to communicate through effective speech. 150093

DST 063 College Study Skills (3-0) Designed for improvement of study systems. Emphasis is placed on high-level study skills and the improvement of time management, effective listening and note-taking, marking texts, learning through media, concentration, retention of information and taking examinations. 150094

DST 053 Human Development (3-0) A course employing the basic principles of psychology, designed to help the student identify personal strengths and career interests, and to develop those interpersonal skills necessary for functioning in the student's chosen field or vocation. Care is taken to identify and build upon the student's strengths, especially as these are related to diverse cultural and/or native language capabilities, that may help assure success in the student's chosen field or vocation. 200091

DST 043 Instruction to American Institutions (3-0) An introduction to contemporary American social, economic and political institutions, with emphasis on foundations of civil liberty and the individual's rights and responsibilities relative to equality and citizenship in a free society.
220091

Drafting 8622

The curriculum in drafting is designed to qualify the student for professional work in the many areas of drafting. Upon completion of the required two-year plan, the student receives an Associate in Applied Science Degree.

DFT 113A Mechanical Drawing I (2-4) A course designed to cover the basic requirements for an engineering degree with extra emphasis put on drafting skills. Course material includes lettering, instruments and their use, applied geometry, orthographic freehand and instrument drawings, auxiliary views, sections and conventions, pictorial drawings, charts, graphs and diagrams.

DFT 113B Illustration Drawing (2-4) This course is designed for the draftsman to develop the skill to make orthographic and pictorial freehand and instrument drawings.

DFT 123A Architectural Drawing (2-4) A course in home planning with emphasis on details. A complete set of plans for a one-story home is required with specification requirements.

DFT 123B Mechanical Drawing II (2-4) An advanced course in mechanical drawing, the course is a further study into fundamentals such as threaded fasteners, keys, springs, gears, cams, jigs, fixtures, the classification system of steel and other metals and basic metalworking processes. Emphasis is placed in the use of the Standards, particularly Machine Handbook and the Appendix, to acquaint the student with industrial practice in making detail and assembly drawings.
Prerequisite: Drafting 113A or Engineering 112, or consent of the instructor.

DFT 123R Drafting for Real Estate Studies (2-2) The course is an interpretation of architectural plans and specifications. Field work includes measurements of site and structure and calculations of area/volume therein, map drafting emphasizing lettering, symbols, scales, lease maps, by coordinants and from surveying notes and the use of the planimeter, calculator and computer calculations.

DFT 213D Descriptive Geometry (2-4) This course involves the principles and application of orthographic projection, space relations of points, lines and surfaces, the true length of lines in space, space surfaces and intersections and developments, intersections of curved surfaces, cylinder, cones and spheres and highway, geology and mining problems.
Prerequisite: DFT 113A or EGR 112 or consent of the instructor.

DFT 213G Computer-Aided Drafting I (2-4) This course is designed for the draftsman desiring a basic understanding of computer-aided drafting. The course is presented in a step-by-step informal style that covers general programming instructions for computer-aided drafting.
Prerequisite: Minimum of 12 semester hours of drafting or consent of the instructor.

DFT 213P Pipe Drafting (2-4) This course includes pipe terminology, fitting, flow diagrams, piping design notes and plans, processing equipment and isometric and theory problems with mathematics approach.
Prerequisite: DFT 113A or EGR 112 or consent of instructor.

DFT 223B Map Drafting (2-4) Map Drafting emphasizes lettering, symbols, scales, lease maps, township maps, highway maps and computations, pipe lines, mapping by coordinates and from surveying notes. Most of the work is in ink, using paper linen and some of the plastics. Some work is done in topography and aerial maps

using Edgar Tobin's "Maps for the Oil Industry" as a text. The course includes field problems with practical application of surveying instruments with use of the planimeter, calculator, slide rule and computer calculations.

DFT 223C Plane Surveying (2-4) The use and care of surveying instruments, plane surveys with transit, tape, profiles and topography with level, computing cross sections, mapping from notes and computations, using coordinates, and map making with plane table are covered.

DFT 223G Computer-Aided Drafting II (2-4) This is an advanced computer-aided drafting course in which the student's basic knowledge of computer language and operation will be utilized to complete computer-aided design problems.
Prerequisite: DFT 213G or consent of the instructor.

DFT 223E Electronic Drafting (2-4) The course is designed to cover the basic requirements for electrical and electronic drafting as applied in industry. The material covered includes theory of electronics, schematics, printed circuit boards and wiring diagrams.

DFT 223P Advanced Pipe Drafting (2-4) This course will begin with advanced isometric spool drawings and solution of rolling ells using Logarithms. Proper dimensioning techniques and a study of the selection and the placement of instrumentation will be covered. Placement, sizing and use of vessels, pumps and compressors will be included as well as a section on advanced plant layout.
Prerequisite: DFT 213P or consent of instructor.

DFT 223S Structural Drafting (2-4) This course includes the preparation of design and working drawings for buildings, bridges, tanks, towers and other structures. The student will become familiar with materials and design connections to transmit forces from one member to another. Emphasis will be placed on the use of Smoley's Combined Tables and the Manual of Steel Construction.
Prerequisite: DFT 113A or EGR 112 or consent of the instructor.

Economics

A student majoring in economics should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

ECO 213 Principles of Economics (3-0) An examination of fundamental economic concepts and principles including macro-economic theory, national income, employment, monetary fiscal policy and international trade. Sophomore standing suggested. 220401

ECO 223 Economic Problems (3-0) A study of contemporary economic issues and problems including micro-economic theory, value and price determination, revenues and costs, market structure and income distribution. Sophomore standing suggested. 220401

Electronics 8824

The electronics program, completed in two college years, prepares the student for entry into the electronics industry as a specialist technician, or as an engineer assistant, to work in the field of research and development, or to service and maintain communication equipment. The student is qualified to do calibration and adjustment of automatic control equipment. Upon successful completion of the program, the Associate in Applied Science degree is granted.

ELC 113 Basic Electronics (3-0) This course is a lecture course designed to introduce the student to basic electronics including numbering systems as related to digital circuits and digital codes.

ELC 113E Basic Electronics Survey (3-0) A beginning survey of electronics for non-major. Covers basic electrical theory. Introduces the student to a wide variety of components and equipment most common to industry. (For non-electric majors only.)

ELC 113L Basic Electronics Laboratory (2-4) This lecture-lab course gives the student the opportunity to experimen-

tally test the theories and theorems related to AC and DC electronic circuits. The students will study the text and have class discussions followed by experiments. The course should be taken concurrently with ELC 113M.

ELC 113M Elementary Circuit Analysis (3-0) This course teaches the mathematics of AC and DC electronic circuits involving passive components such as resistors, capacitors and inductors. Fundamentals of algebra, trigonometry and j operators are used.

ELC 113P Electronics for Petroleum Technicians (2-4) A course designed for petroleum technology majors, it teaches electrical safety, component and circuit concepts and magnetism and includes power, protective devices and signal circuits.

ELC 123 Digital Electronics (2-4) This course is a lecture-lab structured to take the student into advanced digital electronics. Coding and decoding techniques will be discussed as will computer "hardware" applications. Digital-to-analog and analog-to-digital circuits will be explored. Also, multiplexing techniques and registers will be covered. This course prepares the student for microprocessor theory.
Prerequisite: ELC 113

ELC 123A Power Distribution & Electromagnetics (2-4) A study of the AC and DC application of electromagnetics in the design, construction and control of common industrial machines, the course includes motors and generators.
Prerequisite: ELC 113L or consent of the instructor.

ELC 123B Electrical Instruments and Measurements (2-4) The mechanics and the science of electrical measurements are given thorough treatment in the course. Starting with basic indicating instruments and continuing through complex integrating devices, both the operating principles and the "hardware" are studied. Range extending devices, rectifiers, bridges and transformers are used to study metering systems for typical job requirements. Mathematical analysis is used throughout the course.

ELC 123C Electrical Power Systems (2-4) A study of the design, operation and technical details of modern power distribution and protection devices, the course examines system load analysis, rates and power economics.

ELC 123D Automatic Controls (2-4) This is a beginning course in process control systems as related to electrical power distribution. This course includes analog and digital systems, the mechanical and pneumatic components as well as the electrical.

ELC 123E Operating Problems Analysis (2-4) This course is a lecture-lab designed to give the student practical applications of microprocessors for process control on power distribution systems. The student will learn to interface the microprocessor to the outside world. This course is designed for the power distribution co-op student.

ELC 123L Advanced Electronics Laboratory (2-4) A lecture-lab designed to give the student experience in working with electronic circuits with both passive and active components, the student will study the text and apply the theories to experiments.
Prerequisite: ELC 113L or consent of the instructor. Should be taken concurrently with ELC 123M.

ELC 123M Advanced Circuit Analysis (3-0) This course is an extension of the study of the mathematics related to electronic circuits. Network simplication and theorems are studied as they relate to various circuit configurations. Transistor circuit analysis is studied.
Prerequisite: ELC 113M or consent of the instructor.

ELC 213A Digital Computer Fundamentals (2-4) This course is a lecture-lab designed to introduce the student to the microprocessor. Hardware considerations are covered such as bus structure, memory interfacing, CPU architecture and internal registers and buffers.
Prerequisite: ELC 123 or consent of

the instructor.

ELC 213C Semiconductors Laboratory (2-4) This course is a combined lecture-lab designed to acquaint the student with diodes, transistors, op amps and their accompanying circuits. Electronic test instruments and their application are studied.
Prerequisite: ELC 123L or consent of the instructor.

ELC 213T Basic Communication Systems (2-4) This course is a lecture-lab designed to give the student an overview of various communication systems, such as AM, FM, television and microwave. The student studies the areas of power supplies, oscillators, transmitted audio and video signals, automatic gain circuits, synchronizing circuits and cathode-ray camera and picture tubes.
Prerequisite: ELC 123L or consent of the instructor.

ELC 223A Automation and Computers (2-4) This course is a lecture-lab designed to give the student practical applications of microprocessors for process control. The student will learn to interface the processor to the outside world. Topics covered include instruction codes, transducers, interfacing techniques and machine language programming.
Prerequisite: ELC 213A or consent of the instructor.

ELC 223C Semiconductors Laboratory (2-4) This course is a lecture-lab designed to familiarize the student with operational amplifiers and other linear integrated circuits. The student will gain hands-on experience in designing, constructing and using op amp circuits and other related circuits.
Prerequisite: ELC 213C or consent of the instructor.

ELC 223G Power Distribution II (2-4) A study of electrical power generation, transmission and distribution, including equipment protective devices, voltage regulation and personal safety. Primarily a course for students in the electrical power program.

ELC 223T Advanced Communication Systems (2-4) This is a lecture-lab course in advanced communications. Subjects relate to AM, FM, television and microwave. The student is given the opportunity to experimentally study RF tuners, IF amplifiers, video circuits, color television, vestigual sideband, antennas, transmission lines and cable distribution systems.
Prerequisite: ELC 213T or consent of the instructor.

Engineering

The engineering program at Tyler Junior College is designed to meet the needs of the first two years of a four or five year engineering degree program.

Colleges and universities no longer allow advanced algebra and college trigonometry to apply toward a degree in engineering. In order for a student to follow a four year program for a degree in these fields, it is desirable that the student take Calculus I with analytic geometry (Mathematics 213A) the first semester of the freshman year.

It is recommended that all engineering majors, except those with an unusually strong background in high school mathematics, take advanced algebra (Mathematics 113A) and plane trigonometry (Mathematics 113B) during the summer prior to the first semester of the freshman year. This should be done to provide an adequate background for calculus with analytic geometry.

A grade of C or better must be earned in order to continue in sequential mathematics courses.

EGR 111 Introduction to Engineering (1-0) This course includes conferences, lectures and discussions intended to introduce students to the fields and opportunities within the scope of professional work. 090101

EGR 121 Engineering Analysis (1-0) This introduction to engineering analysis affords practice in analyzing and solving engineering problems including computational methods and devices. 090102

EGR 112 Engineering Drawing (2-2-2) Lettering, freehand and instrument drawings, shape and size description, pictorial drawings, charts and graphs, line value and lettering will be stressed through the course. The course includes two lectures, two hours of supervised drafting and two hours of home work per week. 090103

EGR 122 Descriptive Geometry (2-2-2) Auxiliary and oblique views, point, line and plane problems as well as development, intersection, highway, geology and mining problems with emphasis on line value and proper lettering are included in the course. The course includes two lectures, two hours of supervised problems and two hours of home work per week.
Prerequisite: Engineering Drawing and Solid Geometry or Trigonometry. 090104

EGR 123 Engineering Mechanics I (Statics) (3-0) This course features Newton's laws as applied to introductory rigid body statics, analysis of structures, frames and beams.
Prerequisite: Credit or registration for Mathematics 213B. 092102

EGR 223A Engineering Mechanics II (Dynamics) (3-0) Newton's laws, work-energy and impulse momentum methods applied to kinematics and dynamics of particles, systems of particles and rigid bodies are featured.
Prerequisite: Engineering 213 and Mathematics 213B. 092103

English

A student majoring in English should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

ENG 111R Reading Laboratory (1-2) A course designed to help students improve their proficiency in reading comprehension and rate, word recognition and vocabulary development necessary to pursue college-level academic work. 150091

ENG 113R Developmental Reading (3-0) A course designed to help students improve basic reading skills through individualized development of comprehension, vocabulary, and speed. 150091

ENG 113D Advanced Reading (3-0) This course emphasizes the development of basic comprehension skills in reading. It is designed for students who desire increased reading skills. Training is given in overcoming the weakness of individual students and increasing the speed of reading. 150101

ENG 111W Writing Labortory (1-2) A course designed to identify deficiencies and improve writing skills necessary for the student to pursue college-level academic work. 150092

ENG 113E Developmental English (3-0) A course for the improvement of written communication with emphasis on the fundamentals of basic grammar and usage, sentence structure, paragraph development, and theme construction.
Required of students who do not present qualifying ACT/SAT-TSWE or local English placement test scores. 150101

ENG 113 Composition and Rhetoric (3-0) The development of the student's ability to think for himself and to express his thoughts in correct, clear language. Directed study of rhetorical principles through reading types of composition.
Prerequisite: Credit in English 113E or qualifying ACT/SAT-TSWE or local English placement test scores. 150102

ENG 123 Composition and Rhetoric (3-0) Further training in thinking and the ordering of thoughts by the study of literature. Directed study in techniques of writing a research paper.
Prerequisite: English 113. 150102

ENG 213 World Literature (3-0) A study of the masterpieces of Western world literature, from Homer through the Renaissance.
Prerequisite: English 123.

ENG 213A Survey of Short Fiction (3-0) A course of short fiction selections

with emphasis on analytical compositions. Advanced composition and literature.
Prerequisite: English 123. 150305

ENG 213B English Literature (3-0) A historical survey of the major works, writers, and themes of English literature beginning with Anglo-Saxon poetry and continuing through the eighteenth century emphasizing extensive reading and class discussions.
Prerequisite: English 123. 150201

ENG 213E English Literature II (3-0) A historical survey of the major works, writers, and themes of English literature beginning with the Romantic period and continuing to the twentieth century emphasizing extensive reading and class discussions.
Prerequisite: English 123. 150201

ENG 213S Selected Studies in Literature (3-0) This course requires intensive reading in single areas unified by theme or disciplinary content. The title or topic will be made available each semester prior to registration.
Prerequisite: English 123. 150307

ENG 223 World Literature (3-0) A study of the masterpieces of Western world literature, from the Neoclassic period to the twentieth century. Advanced composition, including a formal research paper.
Prerequisite: English 123. 150201

ENG 223B Technical Report Writing (3-0) Technique of verbal efficiency in business letters, job applications and resumes, various types of engineering and scientific reports. Methods of gathering and organizing of material to be presented in oral and/or written form. Required in technological and engineering plans.
Prerequisite: English 113. 150702

ENG 223S Selected Studies in Literature (3-0) This course requires intensive reading in single areas unified by genre or major author. The title of exact topic will be made available each semester prior to registration.
Prerequisite: English 123. 150307

Farm and Ranch Management 5025

Many of the agriculture operations in the East Texas area are a combination of farming and ranching. This two-year program is designed for the student who is interested in farming and ranching or agricultural business as a career.

Both technical knowledge and management skills will be emphasized to prepare the graduate for a career in farm and ranch management, agriculture sales, agriculture marketing or agricultural management.

Students successfully completing this two-year program are awarded the Associate in Applied Science Degree.

RMG 113 Principles of Soil Management (3-6) Covered will be a general study of methods and problems in pasture management, care of pastures and meadows, silage and hay production. Types of soil, objectives in soil management and its relationship to natural and introduced grasses and legumes are also covered.

RMG 113A Principles of Animal Husbandry (3-6) This course is a study of the problems connected with types and breeds, market classes and grades of farm animals. Basic phases of feeding, breeding and production are presented.

RMG 113C Farm Buildings and Construction (2-4) An introduction to construction of farm buildings, fences, corrals and feedlots, including basic skills in farm carpentry, concrete, electricity, masonry and plumbing will be covered as well as problems in design, planning and construction.

RMG 116S Ranch Training On-The-Job (3-37) Students will be required to work on a ranch or in an agri-business related form in the local area, during six weeks of the summer months on a co-op basis between the College and employer. Students will attend classes three hours a week to discuss problems, new ideas and innovations that have occurred during the regular working day. The on-the-job training

program will be supervised by the instructor as well as their immediate supervisor at each place of employment.

RMG 123A Agriculture Economics and Finance (3-0) An introduction to economic problems related to agriculture at the farm and ranch as well as the national level will be examined. The field of agriculture economics and its relationship to other sciences, applications of borrowed capital, farm and ranch operations requirements for making a loan, methods of determining loan needs of farmers, lending agencies and their policies in regard to farm loans, budgeting incomes to facilitate repayment of loans and the cost of using borrowed capital will be covered.

RMG 123D Farm Power Machinery (2-4) Operation, adjustment and service of farm engines and tractors, adaptability, selections, economic utilization, construction, operation and adjustment of the principle tillage, planting, cultivating, harvesting, and feed processing machines are examined.

RMG 123F Principles of Feed Production (3-6) The course is a study of the production, harvest practices, storage and use of cereal and feed grains, fiber crops, forage and other related crops with special emphasis on pasture grasses; both summer and winter.

RMG 123G Farm and Ranch Appraising (2-2) This course is designed to develop an understanding of the principles and methods of appraising farm and ranch property. In addition to land, emphasis will be placed on appraising farm homes and buildings, equipment, machinery and improvements.

RMG 213 Principles of Agriculture Sales (3-0) Basic principles of personal salesmanship are covered, with a study of methods, problems and duties of a salesman. The sale of feed, fertilizer, machinery and agriculture related products will be covered.

RMG 213A Livestock Rations and Application (3-6) A basic course in the study of feed materials, their relative values and adaptability for various types of livestock, including nutrient requirements, balancing and formulating rations, plus methods of feeding farm animals are examined.

RMG 214 Farm Shop (3-6) This course is a practical application of basic knowledge and practice in farm machinery repair, maintenance, welding, metal work and general farm shop.

RMG 223 Animal Health (3-6) The broad field of animal health will be treated under topics such as internal and external parasites, principal diseases of livestock, their importance, identification and control handling of diseased animals, working with the veterinarian and preventive livestock medicine. Students will study basic anatomy and physiology of farm animals.

RMG 223A Farm and Ranch Methods (3-0) This course is a fundamental study of the principles of farm bookkeeping, such as farm inventory, the farm/ranch budget, the process of accounting, the analysis and interpretation of farm records. A complete set of farm and ranch accounts will be developed by each student.

RMG 223B Principles of Beef Cattle Production (3-6) This course is a general practice of beef production relating mainly to farm and ranch marketing problems of the East Texas area including the various beefcattle systems, handling, fitting, showing and breed associations. Participating ranches will serve as laboratories.

RMG 223C Principles of Agricultural Marketing (3-3) The course is designed to give basic knowledge of market grades of cattle, market trends, types of markets, cattle futures market and certain buying and selling techniques for various classes of livestock.

RMG 223D Principles of Livestock Reproduction (3-6) An approach to reproductive processes in farm animals, study includes hormones, estros cycles, ovulation, gestation, pregnancy testing, sperm physiology, collection and storage of semen and

causes of sterilization in females and males.

RMG 223E Farm Shop II (1-4) This course features advanced techniques in Arc, Oxy-Acetylene and shielded Wire Welding as well as the utilization of application of agricultural mechanics methods, practice and skills in the design and construction of advanced projects for farm and ranch use.

Fashion Merchandising 5623

The fashion merchandising curriculum combines lecture and laboratory classes and on-the-job experience in an effort to prepare the student for a career in the areas of merchandising, fashion coordination, display, marketing, middle management or sales. Any person selecting fashion merchandising as a major will enroll in a fashion development training course each semester. This seminar course corresponds to the 20 hours a week of on-the-job training required of each fashion merchandising major. Persons who may have an interest but do not wish to major in fashion merchandising may take any course other than the fashion development classes.

FM 113 Introduction to Fashion Merchandising (3-0) This course is intended as an overview of the fashion industry. It includes a study of the people, procedures and concepts unique to the fashion business.

FM 113A Fashion Development Training I (1-20) This seminar meets one hour per week and will give the student an opportunity to discuss and seek answers to problems he or she has encountered in the required 20 hour a week fashion-related job. This work station, when approved by the fashion merchandising instructor, will serve as laboratory work for the student.

FM 113B Fashion Color, Line, Design (3-0) This course is designed to give the student a thorough knowledge of fashion design, history, silhouette, color and accessories. In addition, the student will develop a working fashion vocabulary and grasp an overview of the area of fashion design.

FM 113C Fashion Textiles (3-0) The study of natural and man-made fibers, construction methods of yarns and fabrics and properties and performance of textiles normally used in apparel are examined. Principles involved in the manufacturing, marketing and distribution of textile products, with special emphasis on seasonal trends of dominant fibers in the apparel industry are also included.

FM 123 Fashion Marketing (3-0) This course is designed to present a picture of the development and present status of a marketing system, to analyze the marketing task and to examine the major policies that underlie the various activities of fashion marketing institutions.

FM 123A Fashion Development II (1-20) This seminar meets one hour per week and will give the student an opportunity to discuss and seek answers to problems he or she has encountered in the required 20 hour a week fashion-related job. This work station, when approved by the fashion merchandising instructor, will serve as laboratory work for the student.

FM 123B Fashion Apparel: Construction and Alterations (2-3) Basic principles of apparel construction, with emphasis on fit and style, the application of construction techniques to the alteration of manufactured ready-to-wear as well as an overview of manufacturing processes essential to apparel mass production: design, production, product cost, and quality analysis, will be covered.

FM 213 Promotion in Fashion Sales (3-2) The main emphasis of this course is exposure to the processes

and actions that promote the sale of merchandise, how they work and how to evaluate them. A working knowledge of fashion advertising, interior and exterior display, fashion publicity and special events will be gained. Field trips and guest lecturers supplement this course.

FM 213A Fashion Development Training III (1-20) This seminar meets one hour per week and will give the student an opportunity to discuss and seek answers to problems he or she has encountered in the required 20 hour a week fashion-related job. This work station, when approved by the fashion merchandising instructor, will serve as laboratory work for the student.

FM 223 Fashion Buying and Merchandising (3-0) This course offers a detailed study of the organizational structure of buying, the external sources of buying information, the fundamentals of effective purchasing and the buyer's role in planning.

FM 223A Fashion Development Training IV (1-20) This seminar meets one hour per week and will give the student an opportunity to discuss and seek answers to problems he or she has encountered in the required 20 hour a week fashion-related job. This work station, when approved by the fashion merchandising instructor, will serve as laboratory work for the student.

FM 223B Retail Mathematics (3-0) This course is a detailed study of mathematical functions which are required of a buyer. Course content includes study in the following areas: components of each basic profit factor, profit and loss statements, the retail method of inventory, retail pricing, markup principles, markdown principles, averaging invoice mathematics, terms of sale, dollar planning and control (open-to-buyer, stock to sales ratio, stock turn, planned sales, planned stocks) and a complete study of retail terms used in the market. This course should be taken concurrently with FM 223.

Fire Protection Technology 6821

This two-year program leads to the Associate in Applied Science Degree in fire protection technology and is in accordance with public law and sets forth approved or certified courses as approved by the Commission on Fire Protection. This commission is composed of representatives of the Texas Education Agency and the Coordinating Board.

FPT 113 Fundamentals of Fire Protection (3-0) This course includes the history and philosophy of fire protection, review of statistics of loss of life and property by fire, introduction to agencies involved in fire protection, current legislative developments and career orientation, recruitment and training for fire departments, position classification and pay plans, employee organizations and a discussion of current related problems and review of expanding future fire protection problems.

FPT 113A Industrial Fire Protection I (3-0) This course covers specific concerns and safeguards related to business and industrial organizations, a study of industrial fire brigade organization and development, plant lay-out, fire prevention programs, extinguishing factors and techniques, hazardous situations and prevention methods and gaining cooperation between the public and private fire department organizations. It also includes a study of elementary industrial fire hazards in manufacturing plants.

FPT 113B Fire Safety Education (3-0) This is a survey of physical, chemical and electrical hazards and their relationship to loss of property and/or life. It includes a study of codes, laws, problems and cases and a detailed examination and study of the physical and psychological variables related to occurrence of casualties. Safe storage, transportation and handling techniques are stressed to eliminate or control potential risks.

FPT 113C Advanced Fire Loss Statistical Systems (3-0) An in-depth study of computerized systems that may be utilized for storing and retrieval of fire loss statistics, the course also includes techniques and procedures for programming various types of records and reports valuable to the fire service.

FPT 113D Fire Insurance Fundamentals (3-0) The relationships between fire defenses, fire losses and insurance rates are studied. Basic insurance principles, fire loss experience, loss ratios, state regulations of fire insurance, key rate system, applying the I. S. O. grading schedule and other topics are stressed. Relationship of insurance to modern business principles of property and casualty insurance contracts and the corporate structure of insurance companies.

FPT 113E Legal Aspects of Fire Protection (3-0) A study of legal rights and duties, liability concerns and responsibilities of the fire department while carrying out their duties, the course is an introduction to basic concepts of civil and criminal law, the Texas and Federal judicial structure, and cities liability for acts of the fire department and fire prevention bureaus. An in-depth study of various cases concerning fire fighters, fire departments, and municipalities.

FPT 113F Fire Service Communications (3-0) The development of fire alarm systems, the various types of systems, installation, operation and testing of the most common systems, receiving, dispatching, and radio communication procedures, F. C. C. regulations, the fire alarm operations office, mutual aid systems, fire station communications and facilities, response and fire ground procedures, emergency operations, code and numbering systems, required records and reports and technological advances.

FPT 113G Urban Fire Problem Analysis (3-0) The course examines the urban fire problem. Operation research techniques and systems engineering are utilized as analytic procedures for the technological assessment of the public fire protection, including water supply, fire alarm and fire department traditional assessment methods and urban analysis.

FPT 113H Fire Science Chemistry I (3-0) This course provides the student of fire science with a basic understanding of inorganic and organic chemistry.

FPT 123 Fire Protection Systems (3-0) This course is a study of the required standard for water supply, special hazards protection systems, automatic sprinklers and special extinguishing systems, automatic signaling and detection systems and rating organizations and underwriting agencies.

FPT 123A Fire Prevention (3-0) The objectives and views of inspections, fundamental principles, methods, techniques and procedures of fire prevention administration as well as fire prevention organization, public cooperation and image, recognition of fire hazards, insurance problems and legal aspects and development and implementation of a systematic and deliberate inspection program are examined.

FPT 123B Industrial Fire Protection II (3-0) This course looks at the development of fire and safety organizations in industry and the relation between private and public fire protection organizations, current trends, deficiencies and possible solutions for industrial fire problems, and the role of insurance and other special organizations.

FPT 123H Fire Science Chemistry II (3-0) A continuation of FPT 113H with a strong emphasis on the nature, reactions and hazards of chemicals encountered in fire fighting.
Prerequisite: FPT 113H.

FPT 213 Fire Administration I (3-0) The course is an in-depth study of the organization and management as related to a fire department including budgeting, maintenance of records and reports and management of fire department officers as well as a look at personnel administration and dis-

tribution of equipment and personnel and other related topics, including relation of various government agencies to fire protection areas.

FPT 213A Building Codes and Construction (3-0) This course is an exploration of building construction and design with emphasis on fire resistance of building materials and assemblies, exposures and related data focused on fire protection concerns with a review of related statutory and suggested guidelines, both local and national in scope.

FPT 213B Fire and Arson Investigation (3-0) A study of the detection of arson, investigation techniques, case histories, gathering and preserving of evidence, preparing for a court case, selected discussion of laws, decisions and opinions, kinds of arsonists, interrogation procedures, cooperation and coordination between fire fighters and arson investigators and other related topics are examined.

FPT 223 Hazardous Materials I (3-0) This course is a study of chemical characteristics and behavior of various materials that burn or react violently related to storage, transportation, handling hazardous materials, with an emphasis on emergency situations and most favorable methods of handling fire fighting and control.

FPT 223A Fire Administration II (3-0) Study will include insurance rates and ratings, preparation of budgets, administration and organization of training in the fire department, city water requirements, fire alarm and communications systems, importance of public relations, report writing and record keeping, use of records to improve procedures, and other related topics.

FPT 223B Fire Fighting Tactics and Strategy (3-0) Emphasis of the course will be placed on preplanning, study of conflagration problems, fire ground organization problem solving related to fire ground decision making and attack tactics and strategy.

FPT 223C Hazardous Materials II (3-0) The storage, handling, laws, standards and fire fighting techniques associated with chemicals, gases, flammable liquids, corrosives, poisons, explosives, rocket propellants and exotic fuel, radioactive materials are covered. The formation of toxic fumes and health hazards are also stressed.
Prerequisite: FPT 113H.

Foreign Language

A student majoring in foreign language should see a Tyler Junior College Counselor or a faculty advisor for help in completing a course plan.

FR 113 Conversational French (3-0) For students who have never studied French, the course is a conversational approach including fundamentals of grammar, readings and emphasis on oral and written composition. 110204

FR 123 Conversational French (3-0) This course is a conversational approach including fundamentals of grammar, readings and emphasis on oral and written composition.
Prerequisite: FR 113 or equivalent. 110204

FR 114 Elementary French I (3-2) This course is an audio-lingual approach with extensive use of audio and video cassettes to teach all facets of the language in a cultural setting. 110201

FR 124 Elementary French II (3-2) A continuation of FR 114.
Prerequisite: FR 114 or equivalent units. 110201

FR 211 Language Practicum (1-0) A self-paced maintenance course designed to build vocabulary, the work is oral and written. Course may be repeated with change of topic.
Prerequisite: FR 114, 113 or with consent of instructor.

FR 213 Intermediate French I (3-0) This course is an intensive review of grammatical structures through readings from modern French literature with emphasis on oral reports and compositions. Class is largely conducted

in French, with use of French video materials.
Prerequisite: FR 124 or equivalent units. 110202

FR 223 Intermediate French II (3-0) Lectures on French literature, philosophy and history with reports done on notes taken are featured during the six weeks' session introducing commercial French.
Prerequisite: FR 213 or equivalent units. 110202

GER 113 Conversational German (3-0) For students who have never studied German, the course is an approach including fundamentals of grammar, readings and emphasis on oral and written composition. 110301

GER 123 Conversational German (3-0) This course is a conversational approach including fundamentals of grammar, readings and emphasis on oral and written composition.
Prerequisite: GER 113 or equivalent units. 110301

GER 114 Elementary German I (3-2) The audio-lingual approach with extensive use of audio and video cassettes to teach all facets of the language in a cultural setting is utilized. 110301

GER 124 Elementary German II (3-2) A continuation of GER 114.
Prerequisite: GER 114 or equivalent units. 110301

GER 213 Intermediate German I (3-0) An intensive review of grammatical structures through readings from modern German literature, the emphasis is on oral reports and compositions. Class largely conducted in German, with use of German video materials.
Prerequisite: Ger 124 or equivalent units. 110302

GER 223 Intermediate German II (3-0) Continuation of intermediate German I. Lectures are on German literature and history as well as an extensive study of German newspapers and magazines.
Prerequisite: GER 213 or equivalent units. 110302

SPN 114 Elementary Spanish I (3-2) The audio-lingual approach with extensive use of audio and video cassettes to teach all facets of the language in a cultural setting is utilized. 110501

SPN 124 Elementary Spanish II (3-2) A continuation of SPN 114.
Prerequisite: SPN 114 or equivalent units. 110501

SPN 213 Intermediate Spanish I (3-0) Finer points of Spanish grammar focusing on vocabulary building and review of verb forms are covered as well as audio-video media utilized for oral practice and composition. Class is conducted largely in Spanish.
Prerequisite: SPN 124 or equivalent units. 110501

SPN 223 Intermediate Spanish II (3-0) A continuation of SPN 213. A novel of a major Hispanic author will be treated along with a more in-depth look at verbal patterns.
Prerequisite: SPN 213 or equivalent units. 110504

SPN 113 Conversational Spanish (3-0) For students who have never studied Spanish, the course features a conversational approach including fundamentals of grammar, readings and emphasis on oral and written composition. 110504

SPN 123 Conversational Spanish (3-0) A conversational approach including fundamentals of grammar, readings and emphasis on oral and written composition is utilized.
Prerequisite: SPN 113 or equivalent units. 110504

SPN 211 Language Practicum (1-0) A self-paced maintenance course designed to build vocabulary both aurally and orally with written reinforcement, the course may be repeated with change of topic.
Prerequisite: SPN 114, SPN 113 or with consent of instructor. 110505

SPN 221 Conversational Spanish (1-0) A continuation of SPN 211. 110505

Geography

A student majoring in geography should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

GGR 223 World Geography (3-0) The earth, its climatic regions, the relation of human activities to physical environments and major cultural divisions and selected regions and countries are covered. 220603

Geology

A student majoring in geology should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

GEO 114 General Geology (3-3) Physical geology processes modifying the earth's surface and materials and features of the earth's crust are covered with laboratory work in cartography, mineralogy, and petrology. 191401

GEO 124 General Geology (3-3) This course examines historical geology, the history of the earth through geologic times as revealed by rocks and fossils and the origin and development of plant and animal life. Laboratory work in paleontology. 191801

Government

A student majoring in government should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan. Government 213 and 223 must be taken to meet legislative requirements for teacher certification.

GOV 213 American Government (3-0) This course is a functional study of the American constitutional governmental system, of the origins, developments and present-day problems of the national government and of the rights, privileges and obligations of citizenship.
Sophomore standing suggested. 220701

GOV 223 American State Government (3-0) The nature, organization and general principles of local government in the United States, with special attention to these forms in Texas and the judicial, legislative and administrative functions in federal and state governmental activities are covered.
Sophomore standing suggested. 220701

Graphic Communications 6238

Students successfully completing this program receive the Associate in Applied Science Degree.

This is a two-year, post-high school technical program designed to meet the needs of the student desiring to enter the field of communications graphics and commercial photography. The course of study is designed to give the student a well-rounded knowledge of illustration, communications graphics and the commercial photography used in advertising and photography fields.

GC 113 Basic Photography (2-4) A course designed to cover the basic requirements of photography, including use of camera, film development and print making. Credit cannot be given for both GC 113 and JRN 123P.

GC 113A Basic Graphics (2-4) The course is designed to present basic principles of graphic design and layout as well as introduction to the basic elements of art work and procedures in preparation of the images used for graphic reproduction.

GC 123 Advanced Photography (2-4) This course is a continuation of GC 113, employing advanced applications in lighting, exposure and processing of sensitized materials and their controls. Zone system sensitometric procedures are introduced. Camera techniques are perfected to achieve professional quality in black and white photography.
Prerequisite: GC 113 or consent of instructor.

GC 123B Reproduction Layout and Design (2-4) This course is designed to cover the basic principles of planning, design, layout and other art work procedures in preparation for the images used in photo-conversion for graphic arts.
Prerequisite: GC 113A or consent of

instructor.

GC 213 Commercial Photography I (2-4) This course is designed to give the student the technical aspects and working knowledge of the techniques employed in the field of commercial photography with emphasis on fashion, architectural, industrial and advertising photography using a large format cameras. Provides the student an opportunity to prepare a portfolio of a variety of commercial photographs for evaluation.
Prerequisite: GC 123 or consent of instructor.

GC 213A Photographic Reproduction (2-4) A course designed to present the basic methods of converting camera-ready images to the complete, printed page. The course covers the basic requirements of camera, masking, plate preparation and basic reproduction processes.
Prerequisite: GC 113A or concurrent enrollment or consent of instructor.

GC 213C Color Photography I (2-4) An introduction to the theories and practices employed in modern color photography, this course deals with photographic methods of producing color reproductions from the original subject utilizing both slide/transparency and color negative films. Concentrated practice is given in exposure, processing and printing of color negatives.
Prerequisite: GC 113, GC 123 or consent of instructor.

GC 223 Studio Photography (2-4) This course looks at the advanced use of lighting and composition of studio portraiture and photography.
Prerequisite: GC 123 or consent of instructor.

GC 223A Graphic Reproduction (2-4) The procedures of advanced color registration printing, special materials handling and general shop operations, as well as the introduction to four color printing process will be introduced.
Prerequisite: GC 213A or consent of instructor.

GC 223B Commercial Advertising Techniques (2-4) A course designed to introduce the student to modern commercial advertising techniques using the principles and procedures employed both in graphic arts and photography, the emphasis is placed on the design, layout and reproduction of high quality color imagery as applied to commercial ads found in magazines, books and other types of professional publications.
Prerequisite: GC 213A and GC 213C.

GC 223C Color Principles II (2-4) This course offers advanced instruction in color evaluation procedures and specialized processes. Color sensitometry and process control procedures are introduced and practical applications are emphasized in printing of color slides/transparencies, utilizing both direct and indirect methods.
Prerequisite: GC 213C or consent of instructor.

GC 223D Commercial Photography II (2-4) A course designed for the serious photography student to provide additional experience and expertise in the commercial field, it is a continuation of GC 213. Large format color imagery and their reproduction techniques employed in the layout of commercial ads and publications is stressed. The student will be expected to finalize and present an extensive portfolio of his/her work from throughout the course for evaluation.
Prerequisite: GC 213 and GC 213C or consent of instructor.

Health and Physical Education

A student majoring in health and/or physical education should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

The purpose of the health and physical education division is to provide a comprehensive curriculum and teaching strategies designed to enhance the total health-related fitness of students. Additionally, the curriculum provides a "core curriculum" for students who plan to become professionals in vocations related to physical education.

The curriculum is based upon the philo-

sophical underpinnings which stress student development, problem-solving skills and independence. HPE 111 is required for the Associate in Arts degree.

HPE 111 Health Concepts of Physical Fitness (0-2) This course will provide a basic understanding of the health-related concepts of fitness.

Health and Physical Education activity courses are offered in these areas:

HPE 111A, 121A, 211A, 221A -Organized athletics
HPE 211B, 221B -Basketball and softball
HPE 111X, 121X -Body mechanics and physical fitness (for nurses)
HPE 211C, 221C -Speedball and volleyball
HPE 211D, 221D -Archery and badminton
HPE 211E, 221E -Tennis
HPE 211G, 221G -Gymnastics
HPE 211L, 221L -Weight training
HPE 211, 221N -Soccer
HPE 211Q, 221Q -Golf
HPE 211R, 221R -Aerobic dancing
HPE 211W, 221W -Racquetball
HPE 211X, 221X -Swimming
HPE 211Y, 221Y -Bowling
HPE 211Z, 221Z -Karate
HPE 211F, 221F -Adaptive physical education

Health and Physical Education Theory Courses

HPE 113 Methods (3-0) The organization and administration of physical education in the public schools as recommended by the Texas State Department of Education for high schools is used as a basis of study. Laboratory periods are devoted to actual problems in the field. 083511

HPE 123 Methods (3-0) A continuation of HPE 113 with special attention given to problems in the health and physical education fields. 083511

HPE 113A Theory of Football and Track (3-0) Methods of coaching football and track are studied through lectures, demonstration, practice and reading of present-day literature on the sport. 083511

HPE 123A Theory of Basketball and Baseball (3-0) Methods of coaching basketball and baseball are studied through lectures, demonstrations, practice and reading of present-day literature on the sport. 083511

HPE 113H Foundations of Physical Education (3-0) A survey of the field of physical education, its historical development of philosophy as well as an analysis of contemporary concepts of program direction and content. 083705

HPE 123H Concepts of Healthful Living (3-0) This course is a presentation of current scientific and technical information in matters related to health, emphasizing a person's need to understand factors in the culture influencing health and his responsibility as a consumer and citizen, including such areas as consumer health, nutrition, mental health, tobacco, alcohol and drugs, family life, environmental health and disease. 083708

HPE 213 Health and Hygiene (3-0) This course is a study of personal and community health. A study is made of causative factors of disease, their means of transmission and prevention. 083708

HPE 213A First Aid (3-0) This course covers training for ARC standard, advanced and instructor's first aid cards (when certified instructor available). Students meeting the requirements for each of these programs are awarded ARC certificates. 083701

HPE 213B Personal Hygiene (3-0) A fundamental course in principles and problems of healthful living as they apply today. 083708

HPE 223 Sports Understanding (3-0) This course is especially designed for those who wish to develop a complete understanding of sports, both major and minor. Rules, terminology and finesse are studied. 083513

HPE 223A Athletic Training and Conditioning (3-0) A course in the practical and theoretical study of massage, taping, bandaging, care of sprains, bruises, strains and wounds, problems of the athletic training room and

practical instruction to aid in the solution of these problems. 083704

HPE 223D Drug Use and Abuse (3-0) The study of use and abuse of drugs in today's society are studied, emphasizing physiological, sociological, and psychological factors involved. 083710

HPE 223E Community Health (3-0) Studied are the principles of personal health - nutrition, mental health, stimulants and narcotics, exercise, sleep and rest. Also community health-sanitation, community services and public health agencies. 083709

HPE 213F Sports Officiating (3-0) Instruction and practice will be given in officiating basketball, football and other sports. 083512

History

A student majoring in history should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

HST 113 English History to 1603 (3-0) This course is a survey in early English history from the time of the Celts to the Elizabethan Age. Emphasis will be on the emerging institutions and society developing in England. 220505

HST 113A Western Civilization in Medieval Times (3-0) This is a standard western civilization-cultural development survey course in the cultural, political and institutional development of the nations of Europe from antiquity to the Renaissance. 220504

HST 123 British History Since 1603 (3-0) This survey course is designed to introduce the student to the British institutions of government, economics, empire, church and society in the modern period. 220505

HST 123A Western Civilization in Modern Times (3-0) A continuation of History 113A, this standard western civilization-cultural development survey course covers the cultural, political and institutional development of the nations of Europe from the Renaissance to modern times. 220504

HST 213 History of the United States (3-0) This course is a general survey of the history of the United States from the era of discovery through the Civil War. 220501

HST 223 History of the United States (3-0) This course is a general survey of the history of the United States from Reconstruction to the present time. 220501

HST 223A The Civil War and Reconstruction (3-0) The causes, course and results of this sectional struggle in the United States are examined along with formation of the Confederacy, military campaigns and Reconstruction. 220552U

HST 223T Texas History (3-0) This course is a history of Texas from the Spanish period to the present day, stressing the period of Anglo-American settlement, the revolution, the republic and the development of the modern state. 220502

Home Economics

A student majoring in home economics should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

HE 113A Principles of Food Selection and Preparation (2-4) Fundamental principles in the selection and preparation of foods, nutritive values and cost of foods are covered. 130602

HE 113B Costume Design and Selection (2-4) This course examines fundamental principles of design and color applied to the selection and planning of appropriate dress with emphasis on line, color and texture in relation to the individual, with laboratory application. 130304

HE 113C Textiles (3-2) This course is the study of fibers, fabrics and finishes for application in choices of fabrics for clothing and home furnishings. 130303

HE 113D Introduction to Food Preparation (2-2) In this course students

learn to plan, prepare and serve attractive, nutritious meals for the individual and for family groups. Laboratory experiences provide opportunities for the student to learn how to operate modern household appliances used in the preparation of food. 130601

HE 113F Textiles and Construction (3-2) This course examines the fundamental facts, concerning fibers, fabric construction and finishes. Laboratory experiences provide opportunities for the selection of fabrics for clothing and garment construction. (Not for home economics majors.) 130303

HE 113H Home and Family Living (3-0) This course is for students desiring limited study and practical application of family problems, in such phases of homemaking as clothing, housing and home care for the sick. Problems are grouped as foods, family relations and child care. 130502

HE 113S Introduction to Sewing (2-2) Included in this course the study of selection, purchase and care of clothing, planning clothing budgets for individual members of the family and construction of three garments. 130301

HE 123A Meal Management (2-4) This course is for majors in Home Economics, hotel or restaurant management. Covered are planning, managing and serving meals suitable for family groups for all occasions and selection and use of table appointments. 130602

HE 123B Clothing (2-4) Fundamental principles of selection and construction of clothing and use and alteration of commercial patterns are studied. Problems are selected according to the ability and learning experience of the student. 130302

HE 123C Nutrition (2-2) Fundamental principles of human nutrition applied to the individual, family and community nutrition problems, chemistry, physiology and economics of nutrition are examined. 130601

HE 123D Intermediate Food Preparation (2-2) This is a continuation of HE 113D with laboratory experiences including gourmet foods and foreign dishes. 130601

HE 123F Advanced Gourmet Food Preparation (2-2) This is a continuation of HE 123D with emphasis on advanced gourmet food preparation as well as foreign foods. 130601

HE 123P Consumer Problems (3-0) A study of consumer goods and services as relates to the home, this course includes the study of family purchasing, advertising, commodity information, merchandise standardization, branding, grading and marketing. 130401

HE 123S Social Fundamentals (3-0) This course is designed to develop an interest in a consideration for others and includes the study of introductions, correspondence, table manners, dating problems, weddings and informal and formal entertaining. 130501

HE 124 Home Furnishings and Interior Design (3-2) Designed to give the student a background of what to look for and plan for in the home, this course is designed to acquaint the student with the basic needs in home furnishings and with solutions to problems of interior decoration. 130202

HE 213 Prenatal and Infant Development (3-0) Physical and psychological preparation of the family for parenthood, study of prenatal development, infant behavior, care and growth to age two are covered. The course is concerned with the infant as a developing individual and his interaction with his environment. 130505

Journalism

A student majoring in journalism should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

JRN 113 Mass Communication (3-2) An introduction to mass communication and fundamentals of reporting for the mass media, the course also includes a newswriting lab one hour per week. 060101

JRN 123 Introduction to Advertising (3-0) This course is an introductory survey of the basics of advertising for print and electronic media. 060401

JRN 123E Radio and Television News Writing (3-2) Preparation of news copy for radio and television, news style for electronic media, spot news, features, reporting, interviewing and assembling a newscast are covered. Two lab hours per week. 060303

JRN 123P Photojournalism (2-3) A beginning course teaching reporting with the camera, basic black and white press photography instruction emphasizing 120 and 35 mm cameras, picture composition, developing and printing. Cannot receive credit for both JRN 123P and GC 113. 060206

JRN 213 General Reporting (3-2) Theory and practice in news writing and reporting are included with two lab hours per week.
Prerequisite: JRN 113 060203

JRN 223 Editing (3-2) This course includes editing, headline writing, layout and reporting. Two lab hours per week.
Prerequisite: JRN 113 or 213
060203

Mathematics

The mathematics courses at Tyler Junior College have been carefully designed to meet the needs of students in specific areas of study, such as technology, liberal arts, business, elementary education, science, engineering and mathematics. A student may take mathematics courses at Tyler Junior College that are equivalent to the courses he/she would take during his/her first two years at a senior institution.

The advanced mathematics program at Tyler Junior College requires four semesters to complete. This sequence does not include college algebra and plane trigonometry. Students who do not have credit in advanced algebra (Mathematics 113A) and plane trigonometry (Mathematics 113B) are advised to complete these courses during the summer preceding their freshman year.

To enroll in Calculus I with Analytic Geometry (Mathematics 213A) one of the following requirements must be met:

1. credit in Mathematics 113A and Mathematics 113B; or
2. credit in Mathematics 113A and taking Mathematics 113B and Mathematics 213A concurrently.

NOTE: A grade of C or better must be made in each mathematics course in order to continue in any mathematics sequence.

A student majoring in mathematics should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

MTH 113 Intermediate Algebra (3-0) This course includes sets, linear equations and inequalities, polynomials and factoring, quadratic equations and inequalities, relations and functions, exponents and radicals.
Prerequisite: High school Algebra I and acceptable placement test score. 170108

MTH 113A Advanced Algebra (3-0) This course includes exponents, functions, inverse functions, exponential and logarithmic functions, theory of equations, systems of equations, matrices, inequalities, ratios, variations, progressions and binomial theorem.
Prerequisite: High school Algebra I and Algebra II and an acceptable placement test score. 170108

MTH 113B Trigonometry (3-0) This course includes angular measure, functions of angles, radian measure, derivation of formulas, identities, solution of triangles, equations, inverse functions and complex numbers.
Prerequisite: Math 113 or registration in Math 113A. 170104

MTH 113D Developmental Mathematics (3-0) This is an introductory course designed to identify and remedy the student's deficiencies in mathematics and to provide a review of fundamental operations in mathematics. 170091

MTH 113E Applied Mathematics I (3-0) This course includes whole numbers, fractions and mixed numbers, decimals, ratio and proportion, percent,

denominate numbers and measurement, introduction to algebra, scientific notation and use of the calculator. Prerequisite: Math 113D or acceptable placement test score. 170101

MTH 123E Applied Mathematics II (3-0) This course includes signed whole numbers, non-fractional equations, additions, subtractions, multiplication and division of fractions, fractional equations, introduction to graphing, literal fractions and formula rearrangement.
Prerequisite: Math 113E or acceptable placement test score. 170101

MTH 113T Applied Trigonometry (3-0) This course includes rectangular coordinates systems, trigonometric functions and graphs, fundamental trigonometric identities, solutions of right triangles, elementary trigonometric equations, logarithms, oblique triangles vectors and applications.
Prerequisite: Math 123E or Math 113L. 170104

MTH 113L Introductory Algebra (3-0) Designed for students who need a review of fundamental operations in arithmetic and algebra, this course may not be used as a part of the requirements for a major in mathematics.
Prerequisite: Math 113D or acceptable placement test score. 170101

MTH 113K Finite Mathematics for Business (3-0) This course covers relations, functions, graphing, equations, inequalities, matrices and linear algebra, permutations and combinations, probability and introduction to linear programming.
Prerequisite: Math 113A 170113

MTH 123K Mathematical Analysis for Business (3-0) Topics from mathematics of finance, exponents and radicals, quadratic, exponential, and logarithmic functions, graphing, sequences and differential and integral calculus with applications are covered.
Prerequisite: Math 113K 170113

MTH 223S Programming for Statistics (3-0) A brief history of computers, importance of computers in the business world, computer hardware, algorithmic computer techniques as related to solving statistical formulas and FORTRAN IV language are included.
Prerequisite: Six hours of college mathematics (not including Math 113D). 170201

MTH 113G Introduction to Modern Mathematics I (3-0) The course covers sets, topics from elementary number theory, rational numbers, decimals and real number system, systems of numeration, metric system and topics from consumer mathematics.
Prerequisite: Acceptable ACTP or SAT scores, or Math 113L. 170114

MTH 123G Introduction to Modern Mathematics II (3-0) Field of real numbers, linear equations and inequalities, functions and graphs, systems of linear equations, quadratic equations, complex and finite number systems and topics of geometry are course topics.
Prerequisite: Math 113G. 170114

MTH 123A Analytic Geometry (3-0) The course covers Cartesian coordinates, the line, the circle and conic sections, transformation of coordinates, polar coordinates, parametric equations and transcendental and higher plane curves.
Prerequisite: Math 113A, 113B or consent of mathematics department. 170109

MTH 113C Elementary Computer Programming (3-0) An introduction to computers and programming logic using the BASIC language, the course is intended for students with no previous computer experience. 070401

MTH 123C Introduction to Computer Science (3-1) Fundamental concepts of computer programming with flow charting and coding, utilizing BASIC and FORTRAN IV languages.
Prerequisite: Math 113, Math 113C, or acceptable ACT or SAT math score. 070401

MTH 123D Computing for Engineers (3-1) Algorithms, programs and computers as well as problems in engineering applications and numerical

analysis using a current engineering high level language (FORTRAN) are course topics.
Prerequisite: Credit or registration for Math 213B. 070401

MTH 213A Calculus I with Analytic Geometry (3-1) Course topics include the line, circle, parabola, algebraic curves, limits, continuity, the derivative, applications of the derivative, the differential and the indefinite integral.
Prerequisite: Math 113A and 113B. See introductory paragraph. 170111

MTH 213B Calculus II with Analytic Geometry (3-1) The definite integral, applications of the definite integral, logarithmic and exponential functions, trigonometric and inverse trigonometric functions, hyperbolic and inverse hyperbolic functions are included with topics from analytic geometry.
Prerequisite: Math 213A. 170111

MTH 223C Calculus III with Analytic Geometry (3-1) This course covers techniques of integration, polar coordinates, indeterminate forms, improper integrals, parametric equations, vectors in two and three dimensions, vector representation of lines and planes and vector valued functions.
Prerequisite: Math 213B. 170111

MTH 223D Calculus IV (3-1) This course includes Taylor's formula, infinite series, differential calculus of functions of several variables, directional derivatives, gradients, line integrals, multiple integration, Green's Theorem and Lagrange multiplier.
Prerequisite: Math 223C. 170111

MTH 223 Differential Equations (3-0) The course topics are equations of the first order and degree, linear differential equations, operational methods, special types of higher order equations, Laplace transforms, introduction to series solutions and applications of differential equations.
Prerequisite: Math 223C. 170116

Medical Laboratory Technician 8028

Tyler Junior College offers a two-year program designed to provide understanding, proficiency and skill as a medical laboratory technician. Upon completion of the program, the student will be granted an Associate in Applied Science Degree.

The first year of the curriculum is devoted to a combination of liberal arts and clinical laboratory studies on the junior college campus. In addition to liberal arts and clinical laboratory studies in the second year, courses are included to provide supervised clinical laboratory work experience in hospitals and clinics.

Two summer sessions of six weeks each are scheduled in the program. The first summer session will be devoted to liberal arts studies and supervised clinical laboratory experience. During the fourth semester and the second summer session, students will be engaged full time in medical laboratories to gain additional knowledge and skills first-hand. They will be under the general supervision of a program coordinator employed by Tyler Junior College. Group lectures to enrich the learning processes of the students will be provided.

When a student has completed the program, he/she should be able to perform in all areas of the clinical laboratory. A minimum grade of 75 (C –) will be required on all medical laboratory technology courses.

Since enrollment in this program is necessarily limited, those applying for admission must make their application directly to the director of this program.

A medical laboratory technician student cannot graduate unless he/she maintains an over-all C average.

MED 113 Basic for Allied Health Service (3-9) The course is an introduction to the field of medical laboratory technology and a study of hematology.

MED 123 Clinical Microbiology (3-9) Practical and basic applications of methods and equipment used in clinical microbiology are covered as well as a brief history of methods to furnish a basic background and terminology.

A number of orientation sessions at the hospital laboratory bacteriology departments are included.
Prerequisite: BIO 114A or permission of the program coordinator.

MED 123A Special Clinical Microbiology (3-6) Practical and basic applications of methods in parasitology, mycology and special bacteriology are course topics.
Prerequisite: BIO 114A or permission of the program coordinator.

MED 123S Clinical Practice I (0-15) This course is designed to provide clinical laboratory experience in the area of advanced hematology and urinalysis. Students will be under the supervision of a program coordinator.

MED 213A Medical Laboratory Techniques I (3-3) This course is a study of topics related to clinical immunology with laboratory applications to various immunological procedures.

MED 213C Clinical Chemistry (3-6) This course provides a study of applications in chemistry related to the clinical laboratory.

MED 216S Clinical Practice IV (0-40) This course is designed to provide clinical laboratory experience in the area of specialization. Students will be under the supervision of a program coordinator.

MED 223A Medical Laboratory Technique II (3-6) This course provides a study of principles in blood banking and coagulation techniques with laboratory application of the various procedures used in a clinical laboratory.

MED 226 Clinical Practice II (MLT) (1-19) This course is designed to provide clinical laboratory experience in the area of special A.M. training. Students will be under the supervision of a program coordinator.

MED 226A Clinical Practice II (1-19) This course is designed to provide clinical laboratory experience in the area of special P.M. training. Students will be under the supervision of a program coordinator.

Mid-Management 5621

The mid-management program is a cooperative work-study program which leads to an Associate Degree in Applied Science. The mid-management curriculum is an accelerated program designed to give selected students the advanced management course needed for managerial skills. Its purpose is to provide a practical, comprehensive program covering the full spectrum of management activity. The program is designed to meet both the requirements of young people preparing for careers in business management as well as men and women who are already actively engaged in business and industry. Structured to provide functional management theory that can be applied immediately to the job, the mid-management program supports the theory that there is no substitute for experience in the learning process.

Concurrent with the academic mid-management courses, the mid-management major is required to take a course called Management Internship. One of the requirements of the management internship course is that a student must work a minimum of 20 hours per week at a training station provided or approved by a mid-management coordinator.

Persons desiring to enroll in the mid-management program should:

1. Make application for mid-management in advance of the fall and spring registration periods.
2. Be counseled by a mid-management coordinator.
3. Be placed in an approved management training station.
4. Obtain a permit to register slip from the mid-management coordinator.

Persons who may have an interest in management but who are not interested in the management internship, may enroll for the mid-management series on approval.

MMG 113B Principles of Management (3-0) This course combines the traditional concepts of management with the newer systems concept in an endeavor to develop a systems approach to management. The process of managing by planning, organizing, directing, coordinating and controlling is an integral part of this approach. The relationship of the principles of management to business situations

using case studies is basic in this course.

MMG 113C Human Relations in Management (3-0) The basic understanding of the individual alone and as a part of groups is critical to the businessman. Included are introduction and definition, the role of the manager and such topics as leadership, motivation, communication, group dynamics and human relations and job performance.

MMG 113S Small Business Management (3-0) This course is designed to develop the student's understanding of aspects of management that are unique to small firms. The course will introduce the student to the economic, social and legal functions necessary to understand required business records, legal and government relationships, profit planning, capital and credit and factors that influence business failure and success.

MMG 123 Principles of Marketing (3-0) A general analysis is made of the social and economic aspects of distribution as found in business organizations. The course includes a study of the marketing structure and functions, institutional problems, prices, advertising and products.

MMG 211 Employment Preparation and Job Interview (1-1) A course to assist the student to prepare for a job application and employment, subjects and projects would include résumé preparation, employment application, job interviews, college placement services and sources of employment information.

MMG 213 Advertising and Promotions (3-0) The fundamental principles, practices and common media in modern advertising are introduced. Included are those activities that supplement both advertising and personal selling, such as sampling, displays, demonstrations and other kinds of effort that render them effective.

MMG 213B Personnel Management (3-0) This course includes the study of personnel policies and administration, education and training, job classification and analysis, labor supply employment and testing.

MMG 223 Salesmanship (3-0) The basic principles of personal salesmanship are covered, with a study of methods, problems and duties of a salesman.

MMG 223B Introduction to Public Relations (3-0) The course introduces the techniques of public relations applied to supervisory and management positions. Customer relations are emphasized and attention is given to programming a total public relations effort and selecting the strategy, media and persuasive devices which will accomplish given objectives.

MMG 223R Retail Merchandising (3-0) A study is made of the planning and supervision involved in marketing merchandise or service which will best serve to realize the marketing objectives of business. Included is the organization and operation of the retail store and an analysis of retail buying and merchandising procedures covering buying, receiving, pricing, credit and collections, sales promotion, display inventory and control.

MMG 113A, 123A, 213A & 223A Mid-Management Work Experience & Seminar (1-20) Internship is open only to students enrolled in the mid-management program. This provides actual work experience in the retail, wholesale or service business field as a paid employee. The student, the employer and the program coordinator develop an individual program for each student. The student is evaluated by both the employer and the program coordinator. MMG 113A – 123A are prerequisites for MMG 213A – 223A, or consent of the instructor.

A weekly one hour seminar is held in conjunction with his job.

Three semester hours credit each semester for four semesters.

The student can only take one internship per semester.

Mineral Land Management 5423

The objective of the land management program is to provide the student with the fundamental knowledge needed to enable him/her to seek employment as a leasing agent for oil, gas and mineral rights. The program centers around an intensive study of land records as recorded in county courthouses and the laws regulating land sales and leasing transactions. Students will also be introduced to map interpretations, boundary location, oil and gas laws, and the basic information necessary for property appraisal. Also included are other courses which will assist in leasing transactions.

Students successfully completing the courses in this nine-month curriculum, and who make application in the registrar's office, will receive a Certificate of Proficiency.

Mineral Lease Records Technology

Mineral lease records personnel must see that legal contracts for land use are properly negotiated and that all scheduled payments are properly made. These two areas of responsibility require extensive sets of records and controls. Therefore, lease records personnel must be familiar with legal instruments, contracts, ledgers, indexes and various other records. Upon completion of this curriculum the student will be awarded an Associate Degree in Applied Science.

Music

A student majoring in music should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

Courses are offered for three types of students:

1. Those who desire to pursue a professional career in music after completing a standard four-year music curriculum.
2. Those who desire to take individual private lessons in applied music.
3. Those who desire a cultural background in music.

General Music Courses

MU 111K Class Piano (1-0) Two and one-half hours instruction per week with instructions for beginners in piano using a 12 place electronic piano lab. The fundamentals of proper piano technique are stressed along with note reading within the great staff, major scales, playing in the keys of C, F, G, and simple chording is taught. No previous piano experience is necessary. Summer class only. 100415

MU 112K Class Piano (2-1) Three hours instruction per week are included with instructions for beginners in piano using a 12 place electronic piano lab. The fundamentals of proper piano technique are stressed. Note reading within the great staff, major scales, playing in the keys of C, F, G, and simple chording are taught. No previous piano experience is necessary. 100415

MU 121K Class Piano (1-0) Two and one-half hours instruction per week, the course is a continuation of 111K. Ledger lines, dotted rhythm patterns, playing in the keys of D, A, B♭, and hand independence are stressed. More solo literature is covered including the simpler works of Bach and Mozart.
Prerequisite: Completion of MU 111K or approval of the instructor. Summer class only. 100415

MU 122K Class Piano (2-1) Three hours instruction per week, the course is a continuation of 112K. Ledger lines, dotted rhythm patterns, playing in the keys of D, A, B♭, and hand independence are stressed. More solo literature is covered including the simpler works of Bach and Mozart.
Prerequisite: Completion of MU 112K or approval of the instructor. 100415

MU 113B Music Appreciation (3-0) This course is a foundation in enjoyment and understanding of music through the use of recorded music and song literature. 100601

MU 113L, 123L Introduction to Music (3-1) This course is a general survey of the development of the art of music designed to provide a basic understanding of the principle periods and styles of music literature: origins, folk music, plainsong, vocal and instrumental forms, jazz and 20th century music. No prerequisites for Music 113L; open to non-music majors. Required of music majors. 100602

MU 112G Classical Guitar (2-1) The course is a basic, exploratory course for the student with little or no background in guitar or music reading. The notes in the first position and correct techniques for the right and left hand are covered. Accompaniment styles in various meters using "pop" music chord symbols are also introduced. Pieces studied are selected from the works of F. Carulli and compositions of similar difficulty. 100413

MU 111G Classical Guitar (1-0) Class instruction for beginners in guitar, selected solo and duet pieces are used to teach music reading in the first position. Traditional classical guitar technique is emphasized. 100413

MU 121G Classical Guitar (1-0) A continuation of MU 111G. This course covers the second half of the material of MU 112G of the long session. 100413

MU 121W Musical Theatre Workshop (0-5) Study and performance of works from the Musical Theatre Repertoire, all phases of techniques and procedures are emphasized, including participation in a musical production.

Theory

MU 113A Music Fundamentals (3-1) An introduction to the elements of music, including study of the staff, clefs, key signatures, scales, time signatures, notation, meter and rhythm and application of theory to the keyboard, this course is designed for those who lack a background in music theory, or for those desiring an appropriate elective. 100501

MU 113T, 123T Elementary Harmony (3-1) The study of triads and their inversions, chord connections, keyboard harmony, cadences, simple non-harmonic tones, seventh chords and original part-writing exercises, the course must be taken concurrently with Music 111T, 121T respectively.
Prerequisite: Ability to read simple music notation. Required of music majors. 100403

MU 111T, 121T Elementary Ear Training and Sight Singing (2-1) Rhythmic, melodic and harmonic dictation in the major and minor modes, sight singing in the treble, bass and C clefs, the course must be taken concurrently with Music 113T, 123T respectively. Required of music majors. 100401

MU 213T, 223T Advanced Harmony (3-1) A further study of harmony and an introduction to counterpoint, the ninth, eleventh and thirteenth chords, chromatically altered chords, modulation, the decorative material of harmony and modern harmony, the course must be taken concurrently with Music 211T, 221T respectively.
Prerequisite: Music 123T. Required of music majors. 100404

MU 211T, 221T Advanced Ear Training and Sight Singing (2-1) Continuation of dictation and sight singing studies, including the C clefs, modulation and chromatic intervals, the course must be taken concurrently with Music 213T, 223T respectively.
Prerequisite: Music 121T. Required of music majors. 100402

Music Education

MU 113E Teaching Music at the Elementary Level (3-0) Techniques and materials of music instruction for K-6 grade, the course includes a study of the child's voice, reading concepts, playing instruments, listening, rhythm, creative movement and examination of recently published materials.
Prerequisite: Music 113A or permission of the instructor. 083201

Pedagogy

MU 121V Brass Class (1-2) Trumpet, Trombone, French horn, and Tuba, with general brass pedagogy, acquiring ability to play simple melodies and scales. 100410

MU 211W Woodwinds Class (1-2) The study of six woodwind instruments: flute, oboe, clarinet, bassoon, saxophone and piccolo. 100412

Ensembles

MU 112B, 122B, 212B, 222B Band (1-4) The official Apache Band, open to any student who has had suitable training. Five hours per week. 100422

MU 111D, 121D, 211D, 221D Concert Band (1-2) An instrumental group which performs symphonic wind ensemble and band repertoire. Open to any student in the college by audition. 100422

MU 112S, 122S, 212S, 222S Stage Band (1-2) 100423

MU 113O, 123O, 213O, 223O Symphony Orchestra (1-3) Open to advanced instrumental students. Members are given practical training in professional orchestral routine in the East Texas Symphony Orchestra. Admission by audition. Four hours a week. 100422

MU 112C, 122C, 212C, 222C Concert Choir (1-2) A mixed chorus organized for the purpose of singing the more important works of vocal ensemble. Members of this group engage in a wide variety of public performance. The choir also presents a Broadway musical in the spring. Open to any student in the College. Three hours per week. 100424

MU 111E, 121E, 211E, 221E - 01 Chamber Singers Small Ensemble (1-2) A small group of select singers capable of performing both as an ensemble and as soloists. The group performs traditional and contemporary madrigal and chamber vocal repertoire. Open to any student in the Concert Choir by audition. 100423

MU 111H, 121H, 211H, 221H Harmony and Understanding (0-3) A highly select vocal pop ensemble. Open to any student in the Concert Choir by audition. 100425

MU 111E, 121E, 211E, 221E - 02 Guitar Ensemble (1-2) A select group of 6 to 16 students which play special arrangements for guitar "orchestra." Admission by audition. 100423

Applied Music

Music majors should enroll in private lessons in two areas each semester, depending upon their intended degree. Those who aim toward professional performance should take private lessons for the *major* for the maximum number of semester hours each semester. Those who aim toward teaching should take private lessons for a *concentration* for two (2) semester hours each semester. All music majors should take, in addition to either a *major* or a *concentration*, a *secondary* private lesson for one (1) semester hour credit each semester. In every case, one of the two private lessons each semester must be piano.

A student majoring in music should see a Tyler Junior College counselor or faculty advisor for help in completing a course plan.

Students may also take private instrumental and vocal instruction as an elective. Two (2) semester hours credit would signify one hour of instruction per week. One (1) semester hour credit would signify thirty minutes of instruction per week.

The fees per semester on Applied Music courses are found in the Tuition and Fees section of this catalog.

Vocal and instrumental instruction is available as follows:

VOICE: Private voice instruction is the study of the art of singing in the bel canto style. All students study breath control, breath support, vowel formation and other techniques of vocal production. This is accomplished through vocal exercises tailored to the individual needs of each student, and the study of art song literature from the English, Italian, German and French repertoires.

PIANO: Private piano instruction for a major or concentration enables the student to develop his technical capabilities to a high degree as well as become well-acquainted

with piano repertoire from the Baroque period to the present day. Piano instruction for minors develops fluency in reading at the keyboard and a knowledge of some technical and theoretical fundamentals at the instrument.

ORGAN: Private organ instruction for a major or concentration enables the student to develop his/her technical capabilities to a high degree as well as become well-acquainted with organ repertoire from the Baroque period to the present day. Organ instruction for minors develops fluency in reading at the keyboard and a knowledge of some technical and theoretical fundamentals at the instrument.

GUITAR: Private guitar instruction focuses on the classical technique. Different positions, proper fingering, major and minor scales and sight reading are emphasized. Typical compositions studied are by F. Carulli, M. Carcassi, L. Milan, and H. Villa-Lobos.

ELECTRIC BASS: Private electric bass covers basic music reading. Emphasis is placed on correct fingering, sight reading skill, scales and memorization of bass parts to "standard" tunes selected by the instructor.

AMU 113V, 123V, 213V, 223V Voice Major. Applied Music. Private instruction. 100421

AMU 112V, 122V, 212V, 222V Voice Concentration or Elective. Applied Music. Private instruction. 100421

AMU 111V, 121V, 211V, 221V Voice Secondary or Elective. Applied Music. Private instruction. 100421

AMU 114K, 124K, 214K, 224K Piano or Organ Major. Applied Music. Private instruction. 100420

AMU 112K, 122K, 212K, 222K Piano or Organ Concentration or Elective. Applied Music. Private instruction. 100420

AMU 111K, 121K, 211K, 221K Piano or Organ Secondary or Elective. Applied Music. Private instruction. 100420

AMU 114W, 124W, 214W, 224W Flute, Clarinet, Oboe, Saxophone, Bassoon - Major. Applied Music. Private instruction. 100419

AMU 112W, 122W, 212W, 222W Flute, Clarinet, Oboe, Saxophone, Bassoon Concentration or Elective. Applied Music. Private instruction. 100419

AMU 111W, 121W, 211W, 221W Flute, Clarinet, Oboe, Saxophone, Bassoon - Secondary or Elective. Applied Music. Private instruction. 100419

AMU 114B, 124B, 214B, 224B Trumpet, Baritone, Trombone, French Horn, Tuba - Major. Applied Music. Private instruction. 100416

AMU 112B, 122B, 212B, 222B Trumpet, Baritone, Trombone, French Horn, Tuba - Concentration or Elective. Applied Music. Private instruction. 100416

AMU 111B, 121B, 211B, 221B Trumpet, Baritone, Trombone, French Horn, Tuba - Secondary or Elective. Applied Music. Private instruction. 100416

AMU 114S, 124S, 214S, 224S Violin, Cello, Double Bass, Harp, Guitar - Major. Applied Music. Private instruction. 100417

AMU 112S, 122S, 212S, 222S Violin, Cello, Double Bass, Harp, Guitar, Electric Bass - Concentration or Elective. Applied Music. Private instruction. 100417

AMU 111S, 121S, 211S, 221S Violin, Cello, Double Bass, Harp, Guitar, Electric Bass - Secondary or Elective. Applied Music. Private instruction. 100417

AMU 114P, 124P, 214P, 224P Percussion - Major. Applied Music. Private instruction. 100418

AMU 112P, 122P, 212P, 222P Percussion - Concentration or Elective. Applied Music. Private instruction. 100418

AMU 111P, 121P, 211P, 221P Percussion - Secondary or Elective. Applied Music. Private instruction. 100418

Associate Degree Nursing

The associate degree nursing program is a four semester and two summer sessions curriculum which begins in the second summer session each year. The

associate degree graduate, after adequate orientation, begins to practice nursing as a staff nurse in hospitals or other health care institutions. Through assessment of the individual, the graduate plans, implements and evaluates direct nursing care for individuals and/or groups with commonly recurring health problems. The graduate is able to monitor and direct peers and ancillary workers in the technical aspects of nursing care.

Having graduated from Tyler Junior College with an Associate in Applied Science Degree in Nursing, the graduate is qualified to apply for the National Council Licensure Examination for Registered Nurses.

Since applicants must meet the admission criteria of the program, application must be made directly to the program coordinator. Applicants will be selected for enrollment based on acceptance to the college, ACT or College Board (SAT) scores, reading level, math ability, prior educational achievement, personal references and health status.

All required courses of the associate degree curriculum must be completed with a C or better. Having received a D or below in any nursing course or a prerequisite non-nursing course, the student may not progress until the deficiency has been removed.

Only two attempts within five years of admission will be permitted in any nursing course. Having received a final grade of D, F or WF, necessitates a repetition of that course constituting a second attempt.

NSG 117 Nursing I (4-10) This initial level one course is a 16-week study designed to aid the student in developing attitudes and skills basic to the practice of nursing. The concepts incorporated in this course relate to elemental nursing, nursing pharmacology and mental health. Emphasis is placed on the acquisition of technical skills pertinent to the nursing process, basic communication skills with identification of components and methods of verbal and non-verbal communications, legislation, standards and identification and usage of pharmaceutical preparations. Experiential learning occurs through independent research, classroom participation and concurrent guided skills laboratory and clinical practice. This course serves as a prerequisite to all other clinical nursing courses.
Prerequisite: Concurrent enrollment unless previously completed: BIO 114D and P.E. 111X.

NSG 127 Nursing II (4-10) This course is designed to provide the student with theoretical and clinical learning experiences in medical-surgical nursing. The nursing process is utilized in the care of adult clients experiencing the following conditions: male reproductive disorders, gastrointestinal diseases, musculoskeletal disorders, and dysfunctions of the eye and ear. Mental health concepts of Nursing 117 are expanded with presentation of death and dying. Theoretical and clinical components provide opportunity for gaining skills acquired in the previous course.
Prerequisites: NSG 117, BIO 114D and P.E. 111X. Concurrent enrollment unless previously completed: BIO 124D and P.E. 121X.

NSG 214 Nursing III (6.4 - 19.2) This medical-surgical nursing course presented one summer session allows application and expansion of basic skills in more diverse manners as the student cares for adult clients. Students are introduced to dysfunctions of endocrine, respiratory, genitourinary and integumentary systems. Theoretical and clinical applications on intravenous therapy are emphasized. A more concentrated clinical experience is provided as students practice the nursing process, skills, and concepts in the clinical setting.
Prerequisites: NSG 127, BIO 124D and P.E. 121X.

NSG 225 Nursing IV (5-17) This eight week course is a study of female reproduction and the family during the childbearing stage. The students concentrate on gynecologic problems, pregnancy and the effect pregnancy has on family life, and the newborn. Physical and mental adaptations/maladaptations and common dys-

functions are studied. Emphasis is placed on the nursing process in giving care to the family prior to, during and after delivery and to the newborn. The student who successfully completes this course will be expected to function at the bedside in giving basic nursing care to the child-bearing family and to the female with disorders of the reproductive system.
Prerequisites: Level I and N214. Concurrent enrollment unless previously completed: BIO 114A.

NSG 225A Nursing V (5-17) This eight week course is a study of a comprehensive pediatric nursing that is based upon an understanding of child and family development, knowledge of normal and pathologic embryology and anatomy and physiology. Emphasis is placed on illness and prevention of illness as they affect children of different ages and their families. The student applies the nursing process in delivery of care.
Prerequisites: Level I and N214. Concurrent enrollment unless previously completed: BIO 114A.

NSG 235 Nursing VI (5-17) This eight week course is designed to facilitate an understanding of common behavior deviations related to health and illness. Emphasis is placed upon principles and methods employed in psychiatric nursing. A study of etiology, symptomology and treatment of socially ineffective behavior is presented. The nursing process is utilized in concurrently guided clinical laboratory practice provided in a state psychiatric hospital. The student will also expand previously learned concepts of self-awareness and therapeutic communication techniques.
Prerequisites: Level I, NSG 214 and BIO 114A.

NSG 235A Nursing VII (5-17) This eight week nursing course is designed to facilitate synthesis of theoretical and clinical learning experiences in the nursing care of hospitalized clients and student transition to the graduate role. The student studies medical-surgical nursing with emphasis upon the neurological and cardiac systems. In preparation of a transition, the student considers the functions of nursing service, the change process, nursing politics, and the role of the associate degree graduate. Role transition is enhanced through opportunities to function as a team member and a team leader of ancillary personnel.
Prerequisites: Level I, NSG 214 and BIO 114A.

Nursing Home Administration 8222

This program provides a two-year course of theoretical and professional training at the college level, leading to the degree of Associate in Applied Science in nursing home administration.

Students will be able to provide leadership in therapeutic recreation as well as mastering subject matter pertaining to legal, physical and financial management needed to succeed as a nursing home administrator.

NHA 113 Introduction to Nursing Home Administration (3-0) The study of general administration in the long term care facility includes a study of how a business is organized, employees are selected and supervised, business law and insurance. Studies of labor, its problems, human relations, training, staff development meetings, group dynamics and a review of administrative procedures in writing policies for admission, discharge, transfer, emergencies and operations.

NHA 113A Psychology of Patient Care (3-0) This course assists the administrator in understanding the special needs and problems of the elderly, their families and staff members in their different roles in the care and adjustment of the elderly to their new mode of living and their physical/men-

tal handicaps when they are placed in a long term care facility.

NHA 113G Group Activities (3-0) The goal of recreation is for the re-creation of human energy and enthusiasm through an infinite variety of pursuits. This course gives insight into groups, leaders, leadership-development, orientation, evaluation and roles vital to recreation programs for the long-term care resident.

NHA 121 Nursing Home Standards (1-0) This course is a detailed study of the Minimum Standards for Licensure of a long term care facility and the Intermediate Care Facility Standards for Participation in the Medicare/Medicaid Contract. These are also guidelines that the Texas Department of Health and Texas Department of Human Resources use in certifying/recertifying and monitoring of the long term care facilities.

NHA 123 Technology of Patient Care (3-0) This course includes a detailed study of the technical aspects of a long term care facility and includes medical records, pharmacology, medical terminology, patient care, nursing procedures, safety, physical therapy, equipment, recreational therapy, sanitation and gerontology.

NHA 123A Nursing Home Administration Law (3-0) This course includes a study of the nature and scope of laws, court system, law of contracts, principal and agent, business organizations, including partnerships and corporations, state community property laws, torts, bailments, employer/employee relationships, introduction to theory and practice of insurance as applicable to owners of long term care facilities with emphasis on burden of financial loss, contractual arrangements and contracts, legal liabilities for bodily injury and property damage to patients and visitors.

NHA 213A Financial Management of the Nursing Home (3-0) This course examines techniques and strategies of financial information for management decision-making in the long term care facility emphasizing the budgeting process and relationships between statistical and financial data. Included is the study of special accounting requirements of Medicare and other government programs.

NHA 216 Nursing Home Internship I (with seminar) (3-20) This internship program is divided into three hours of classroom study and 20 hours per week of on-the-job training in an approved facility, supervised by an administrator licensed by the Texas State Board of Licensure for Nursing Home Administrators or a state approved perceptor. Included is a critique of one's current job as it relates to classroom discussion; also methods of assisting the student to an administrative field as a long term care facility manager.

NHA 224A Nutrition and Quantity of Foods (3-1) This course includes the study of nutrients of foods, food selection and preparation of all types of diets, food and drug interactions and metabolism of foods. The importance of a balanced diet in a long term care facility of residents with multiple illnesses and handicaps are examined along with introducing the student to the food service departments of long term care facilities and writing assignments as they work with employees of the facility.

NHA 226 Nursing Home Administration Internship II (3-20) This management internship is supervised by a preceptor-administrator approved by the Texas State Board of Licensure of Nursing Home Administrators, in an approved facility. Three hours classroom plus 20 hours of on-the-job administrative training per week are included, plus a critique of current job and its related experience, correlating these experiences to classroom discussions of ways to assist the new entrant into the nursing home administrative career field.

Office Occupations 5824

The curriculum in office occupations offers two options designed to qualify students for employment in a variety of

business office settings. Upon completion of either option, a student may receive an Associate in Applied Science Degree.

A student who completes all courses listed in the first two semesters of either option may receive a Certificate of Proficiency in office occupations.

OC 112M Business Machines (1-2) This course offers instruction and practice on machines used in the business environment. Machines include ten-key, electronic display, electronic printer, reproduction machine, plus selected jobs on the micro-computer.

OC 113 Introduction to Secretarial Procedures (3-0) This course is designed for students who are interested in general office responsibilities. It covers such topics as public relations, stationery supplies, office organization, reprographics, incoming and outgoing mail processing, telephone and telegraph techniques, records management, banking duties and career entries.

OC 113R Business English (3-0) This course stresses the fundamentals of grammar, punctuation, spelling and capitalization as employed in written business communications.

OC 113T Beginning Typewriting (3-3) This course stresses exercises for the mastery of the keyboard by the touch system. An introduction to production problems including business letters, tabulation, and manuscripts is included.

OC 114S Elementary Shorthand (4-2) This course is a development of shorthand theory, vocabulary, dictation and transcription skills. Placement tests are available.

OC 122 Machine Transcription (1-2) This course is designed for students to develop skills necessary for entry-level employment. Students produce mailable transcripts from machine dictation.
Prerequisite: OC 113T or one year of high school typing.

OC 123C Business Communications (3-0) This is a study of both written and oral communications in modern business. The organization of business letters, memoranda and business reports as well as an emphasis on effective oral responses is stressed.
Prerequisite: OC 113T or one year of high school typing.

OC 123T Intermediate Typewriting (3-3) This course stresses the preparation of business letters, with special features: administrative communications, business forms, technical and statistical reports and manuscript preparation.
Prerequisite: OC 113T or one year of high school typing.

OC 123W Word Processing (2-2) This course is an orientation of terminology, procedures and hardware. It includes hands-on experience on automated typing equipment, including storage and retrieval of information utilizing information processors.
Prerequisite: OC 113T or one year high school typing.

OC 124S Intermediate Shorthand (4-2) This course is an application of the principles of Gregg Shorthand, Series 90, to develop the ability to write and to transcribe accurate shorthand notes at increased dictation speeds.
Prerequisites: OC 114S or one year of high school shorthand; OC 113T or one year high school typing.

OC 213F Advanced Secretarial Procedures (3-0) This course is designed for students who are interested in general office responsibilities. It covers such topics as stationery supplies, office composition assignments, arrangements of travel schedules, facilitating of meetings and conferences, investments and insurance, legal document processing and records organization and procedures.

OC 213T Advanced Typewriting (3-3) This course is production typing with specialized business units. It has the emphasis on the organization and placement judgment of business forms. Accuracy and speed development are covered.
Prerequisite: OC 123T

OC 213W Word Processing (2-2) A study of advanced procedures on auto-

mated typing equipment. More emphasis on individual projects.
Prerequisite: OC 123W

OC 214 Advanced Shorthand (4-2) This course places emphasis on speed building, mailable transcription and office style dictation.
Prerequisite: OC 124S and OC 123T

OC 223F Executive Secretary (3-0) This is a course that analyzes the diversified duties of an executive secretary as an office supervisor and professional team member. A week-long Understudy Office Activity introduces the student to office environments. Fundamentals of shorthand dictation and typing speed development are reviewed.
Prerequisites: OC 124S and OC 123T

Ophthalmic Technician and Dispensing 8037

The curriculum for ophthalmic technicians and dispensing represents a carefully planned balance of theory and practice in all aspects of the profession. The purpose of the program is to prepare the student to apply the science of optics to the making and fitting of lenses and devices to aid in providing comfortable and efficient vision; to prepare the student to measure, adapt and fit eyeglasses or contact lenses to the human face, for the aid of correction of visual or occular abnormalities; and to train the student in the use of measuring devices, instruments, machines and hand tools.

Students successfully completing this two-year program are awarded the Associate in Applied Science Degree.

OD 113 Ophthalmic Materials and Laboratory I (2-4) Covered in this course are basic optical terminology-fundamentals of lens design and surfaces, lens functions relative to different refractive errors, the use of optical instruments and measuring devices, frame and lens measurements, single vision lens lay out, edging and mounting glass and plastic lenses.

OD 113B Introduction into Ophthalmic Dispensing (3-0) This course is an introduction in Opticianry with emphasis on building a new vocabulary which will enable the ophthalmic student to develop interprofessional relationships. Topics include: history of glass, Ametropia, instruments and tools, gross anatomy, optics, lenses, frames and inspection of the final product.

OD 123 Ophthalmic Materials and Laboratory II (2-4) This course examines methods of grinding and polishing spherical and cylindrical surfaces, use of the lens generating machines, blocking lenses by hand and by machines, principles of computing lens curves and thicknesses, prism grinding, use of laboratory charts, methods for laying out and marking single vision and multifocal lens blanks, special considerations in grinding and polishing complex prescriptions in glass and plastic lenses and operation of the lens hardening machines.

OD 123A Anatomy and Physiology of the Eye (3-0) This course is a specific study of the structure and functions of the eye, the visual pathways and its associated structures. Emphasis is placed on corneal shape, corneal metabolism and cortical interpretation of visual stimuli.

OD 123B Principles of Optics I (3-0) The course is an introductory course into light and its behavior with emphasis on the effect of lenses on light. Topics include: reflection, refraction, absorption, mirrors, prisms and thin lenses.

OD 213 Ophthalmic Materials and Laboratory III (3-3) This course includes: interpretation and analysis of the shop order, selecting the proper tools and blanks, preparation of lens for cutting and edging to size, operation of the automatic edging and beveling machines, hand edging of lenses, practice in inserting lenses into plastic and metal frames, drilling and mounting lenses into rimless spectacles, special techniques in handling plastic lenses, instruction in use of the lensometer and vertometer and evaluation and analysis of completed spectacles for accuracy and quality.

OD 213A Ophthalmic Dispensing I (3-3) This course is a study of practices and responsibilities of the ophthalmic dispenser. Topics include: lens aberrations and their effects on patients, safety lenses, absorption lenses, anti-reflective and other optical coatings, aphakic lenses, anisometropia and bicentric grinding and principle of fitting bifocals.

OD 213B Principles of Optics II (3-3) This course is designed for practical applications of lens equations. Topics include: optics of spherical lenses, optics of spherocylinder lenses, optics of ophthalmic prisms, and the relationship of surfacing charts, surfacing tools and instruments to finished product.

OD 213D Office Procedures, Ethics, and Insurance (3-0) This course includes the study of retail office procedures and ethics, the layout of a dispensing office and laboratory and the study of insurance programs and claims.

OD 223 Contact Lenses (3-3) An introduction into contact lens theory and practice, topics include: history, interpretation and analysis of the contact lens prescription, manufacturing of PMMA and gas permeable contact lenses, verification of PMMA and gas permeable contact lens, and of soft contact lens, adverse reactions and responsibilities of the contact lens practitioner.

OD 224A Ophthalmic Dispensing II (3-6) This course examines the psychology of dispensing, consideration of style and fashion in eye-care, dispensing procedures relating to bifocals and complex prescriptions, considerations of the visual problems of the aphakic patient, techniques of fitting and adjusting of plastic, metal and rimless spectacles, dispensing of occupational spectacles, office management and evaluation and analysis of completed spectacles for accuracy and quality.

OD 223D Seminar (3-0) This course is a review of the four semesters work as preparation to the State and National Certification Exam.

OD 114S (0-20), 124S (0-20), 213C (0-12), and 223C (0-12) Practicum Practical experience in offices and laboratories of dispensing opticians, assignments in work related experiences will be rotated to enable the student to obtain experience in all types of ophthalmic dispensing.

Ornamental Horticulture 5026

Ornamental horticulture describes a group of occupations which deal with the propagation and production of ornamental plants, the design and construction of landscapes and the sale and use of trees, shrubs, flowers, garden plants and turf. This occupation improves and beautifies the environment and leads to an Associate in Applied Science Degree.

HRT 113A Landscape Plant Materials (3-3) This course covers the identification, classification, characteristics and landscape use of shrubs, vines, ground covers, flowers and landscape trees.

HRT 123A Herbaceous and Tropical Plants (2-4) This course is concerned with identification, culture and use of ornamental herbaceous plants grown in homes, indoor and outdoor gardens, shopping malls and other commercial buildings and conservatories.

HRT 123B Floral Design I (2-4) A study of the basic principle of floral design, topics include using fresh flowers and other materials to create basic and unusual corsages, boutonniers and homecoming mums.

HRT 123C Landscape Maintenance (2-4) A course designed to introduce students to the many areas of grounds maintenance, trees, shrubs, ground covers, flowers, turf and equipment used are covered. Public and private areas are covered with actual practice of grounds maintenance done in the laboratory sec-

tions. Designed mainly for students interested in professional grounds maintenance.

HRT 213 Greenhouse Horticulture (2-4) This course covers the construction and operation of such ornamental horticulture production structures as greenhouses, lath houses, hotbeds and cold frames. Emphasis is on effective environmental control and efficiency in production operations.

HRT 213A Nursery Operation (3-3) In this course, emphasis is placed on the proper care of landscape plants, retail nursery, landscape operation, garden center, and wholesale nursery.

HRT 213C Floral Design II (2-4) This course is a study of the basic principles in floral arrangement work. Lab instruction will be working with fresh flowers and designing many types of cut flower arrangements. Some silk, dryed and plastic flowers will be utilized.

Prerequisite: HRT 123B or consent of instructor.

HRT 213E Greenhouse Crop Production (2-4) This course is designed to cover plant material normally grown as "greenhouse crops." Emphasis will be on bedding plants, baskets, foliage plants and floral crops. Areas from growing to marketing will be covered.

HRT 214 Fundamentals of Design and Landscaping (3-6) This course provides instruction in the basic principles, practices and concepts of design, preparing plans, specifications and cost estimates.

Prerequisite: HRT 113A or consent of instructor.

HRT 223 Ornamental Crop Production (2-4) The emphasis of this course is advanced methods in nursery and greenhouse crop production, container grown plants, selected pot plant production and field production.

HRT 223D Landscape Development (2-4) This course covers the planning and landscape operations, the proper care of landscape plants and construction of landscape structures, including pruning and training of trees and shrubs, the culture of select grasses and installation of drainage and irrigation systems.

HRT 223P Horticulture Pest Control and Chemicals (3-3) This course is designed to introduce ornamental horticulture students to pests common to the industry and how to effectively control them. A complete study of fertilizers, insecticides, fungicides, growth regulators, hormones and other chemicals common to the industry will be covered.

Petroleum Technology 8431

Students successfully completing this program receive the Associate in Applied Science Degree.

The petroleum technology curriculum was established with the advice and cooperation of employees and workers in the oil fields to provide the preliminary training for workers in various aspects of petroleum development and production. The oil industry requires employees with training in locating, drilling and maintaining wells and in handling and refining petroleum products.

While scientific background and related information is included in the technology course, major emphasis is upon operation in the oil field, with opportunity for field trips and for employment.

Petroleum technology majors have available training for four broad areas: exploration, development, marketing and construction and maintenance.

PT 113 Petroleum Development (3-0) This course examines principles of oil field development, spacing of wells, rotary and cable tool drilling methods, drilling fluids, directional drilling and oil field hydrology.

PT 113A Introduction to Petroleum Industry (3-0) Theory of geophysical methods, exploration, leasing and royalty, conservation, transportation and refining and economics of the oil industry are covered.

PT 113B Petroleum Equipment Field Laboratory (2-4) This course includes classroom presentations of equipment used within the petroleum

industry and field trips to visit actual equipment in operation in the field.

PT 123 Production Methods (3-0) Methods of production of oil, including lease layout and operations, operation of treating equipment, well stimulation and workover are examined.
Prerequisite: PT 113 and PT 113A or consent of instructor.

PT 123A Rotary Drilling Fluids (2-4) Covered in this course are testing methods, determining drilling fluid characteristics, drilling fluid problems, use of special drilling fluids plus laboratory exercises consisting of practice in altering the properties of fresh water and special drilling fluids for drilling through troublesome zones with the rotary system.
Prerequisite: PT 113 and PT 113A or consent of the instructor.

PT 123B Oilfield Records (3-0) This course is a study of records kept by oil companies and reports made within the companies.

PT 213A Petroleum Laboratory Methods (3-3) A study of control of the six major trouble areas in the petroleum industry, the course covers corrosion, scale, bacteria, emulsions, paraffin and cathodic protection and core analysis.
Prerequisite: PT 113 and PT 113A or consent of instructor.

PT 213B Well Logging Methods (3-0) A study of theories of electrical, microelectrical radiation, optical chemical and mechanical well logging methods and application of these theories, field examples and problems are included.

PT 213D Petroleum Surveying and Drafting (2-4) A study of the basic theory and use of the level, transit and plane table, the course also covers theory and introductory skills of map drafting including lettering, scales, inking, aerial photographs and U.S.G.S. maps.

PT 223 Natural Gas Production (3-0) Field handling of natural gas, study of methods, equipment and technology of natural gas are examined.
Prerequisite: PT 123 and PT 213A or consent of instructor.

PT 223A Completion Methods (3-0) This course is a study of jet and bullet perforating, acidizing, fracture treating, completion equipment, single and multiple packers and wire line tools.
Prerequisite: PT 123 and PT 213A or consent of instructor.

PT 223C Hydraulics for Petroleum Technologists (3-0) Studied are hydraulics in drilling, oil pipelines and artificial lift.
Prerequisite: PT 213B, PT 213A, PHY 113 and MTH 113T or consent of instructor.

Philosophy

PHI 113 Introduction to Philosophy (3-0) This course is a general introduction to philosophy designed to give basic knowledge of philosophical terminology, the history of philosophy and understanding of the issues from which that history evolved. 150901

PHI 123 Logic (3-0) Nature and methods of correct reasoning, deductive proof, inductive proof, fallacies and arguments are examined. 150903

PHI 213 Introduction to Ethics (3-0) Presented in this course are consideration of the basic principles of human life, with critical examination of traditional and current theories of the nature of goodness, happiness, duty, and freedom, including readings from selected philosophies, past and present. 150902

Physics

Physics is the fundamental physical science. The study of physics provides background for engineering, industrial research and development, medicine, teachers of science and biological sciences.

Students majoring in physics who do not receive advance placement in MTH 113A and 113B are encouraged to take these courses in the summer so that they may enroll in MTH 213A in the first semester of the freshman year.

A student majoring in physics should see a Tyler Junior College counselor or a fac-

ulty advisor for help in completing a course plan.

PHY 113 Physics Problems (3-0) This course is an introduction to general physics with emphasis on problem solving. 190201

PHY 113D Statics and Strength of Materials (3-0) An introduction to the basic fundamentals of statics, including resultant and equilibrant of forces, moments and friction, the course also covers the practical application in the study of strength of materials covering properties, joint construction, beams, combined stresses, columns and torsion. 190201

PHY 114B General Physics (3-3) A course for premedical, biological science, pharmacy, architecture and other students who need a two-semester technical course in physics. Fundamentals of classical mechanics, heat, and sound are discussed. 190202

PHY 124B General Physics (3-3) A continuation of PHY 114B. Electricity and magnetism, light and modern physics are discussed.
Prerequisite: PHY 114B 190202

PHY 124A Mechanics (3-3) This course is for students who intend to major in physics, chemistry or mathematics, and for engineering students who have no physics background.
Prerequisite: Credit or registration in MTH 213A. 091901

PHY 214A Advanced Physics (3-3) Heat, wave-motion and optics are discussed.
Prerequisite: PHY 124A or EGR 213 and credit or registration for MTH 213B.

PHY 224A Advanced Physics (3-3) Required of all engineering majors, electricity and magnetism are discussed.
Prerequisite: PHY124A or EGR 213 and credit or registration for MTH 213B. 091901

Postal Management 9624

This program provides two years of courses in postal service leading to a degree of Associate in Applied Science.

The first two semesters are a detailed study of the theory and operations in postal service. These courses and other related courses may be taken by any student. During the last two semesters, two seminars and on-the-job training are required and only postal service employees may enroll.

Students are provided with a functional knowledge of the various departments of the postal service and the guidelines of postal regulations and operational procedures.

PMT 113 Introduction to Postal Service (3-0) A survey of the complex components in the postal service and how they are sub-divided, major consideration is given to job opportunities in the postal service with special emphasis on aptitudes and skills required to be successful.

PMT 113A Mail Processing (3-0) This course covers mail classification and rates, service standards, postal terminology, the four functions of mail processing, distribution systems, mail processing objectives and responsibilities, the mail preparation operation, manual distribution, machine distribution, revenue protection and the bulk mail centers.

PMT 123 Postal Rules and Regulations (3-0) An investigation of the line activities of postal operations and regulations and the thinking behind them, the course is an in-depth study of success or failure in work flow control. Major consideration is given to the correct implementation of present regulations and how they may be utilized to improve the postal service.

PMT 123A Postal Customer Services (3-0) This course is designed to provide the student with an in-depth knowledge of all services provided for postal customers. It covers customer relations, retailing postal products and non-postal services. Special emphasis is placed on means to achieve and manage professional window service operations. The duties of customer service representatives are also reviewed.

PMT 213 Postal Accounting and Finance Procedures (3-0) The course reviews the postal accounting and statistical system in planning, organizing, and controlling of cost and accounting procedures; covers preparation of budget and cost-benefit analysis, provides for effective use of resources and assists in the understanding of primary financial objectives in order to control operations as a means of achieving organization goals, teaches long and short range budget techniques consisting of modern financial principles and practices and applies budget control procedures.

PMT 213S Training and Employee Development/Seminar III (1-20) Course topics include techniques used in job instruction training, the principles of learning and how people learn, lesson planning and practice sessions, the importance of correct selection of strategy, media, and persuasive devices to accomplish given objectives in postal training. This course provides actual work experience in the postal service and a one hour seminar is held each week.

PMT 223A Employee and Labor Relations (3-0) This survey course of union/management relations as related to public sector agencies, includes union laws, organization, collective bargaining techniques, social and economic factors, arbitration, grievance procedures and contract construction.

PMT 223S Postal Problem Analysis Seminar IV (1-20) The goal is to provide the student an appreciation, understanding and working knowledge of several systematic approaches to the science and art of problem solving with an emphasis on employee and labor relations. This course provides work experience in the postal service and a one hour seminar is held each week.

PMT 223 Postal Management and Supervision (3-0) Attention is directed towards the supervisor's role in planning, staffing, organization principles, labor contracts, occupational safety and their relation to the daily job of supervision. In addition, role playing, simulation, group discussion and practical work assignments are used throughout the course in order to assist students in developing possible, applicable solutions to various management situations.

Psychology

A student majoring in psychology should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

PSY 111 Freshman Orientation (1-0) This course is designed to help students adjust to college life. The emphasis is on developing effective study skills, making wise educational choices and nurturing appropriate social and personality development. Required of full-time beginning students.

PSY 213 Introductory Psychology (3-0) This course is a study of the basic principles of psychology, bearing on individual differences, intelligence, the development of personality, growth, motivation, drives, emotions and learning. 209901

PSY 223 Applied Psychology (3-0) An analysis of basic psychological principles applied to adjustment and behavioral problems, the course is a study of personality, attitudes, social relations and interactions as well as techniques for coping with stress and anxiety encountered in everyday situations of life and work. 200104

PSY 223A Child Growth and Development (3-0) How children grow and develop, the stages in the process and the physical, social, mental and emotional factors which influence growth and development up to adolescence are considered. 200902

Radiologic Technology 8033

Tyler Junior College offers a cooperative program with Medical Center Hospital and

Mother Frances Hospital designed to provide understanding, proficiency and skill in radiologic technology.

Upon completion of the program the student will be granted an Associate in Applied Science Degree and will be eligible to apply for certification by the American Registry of Radiologic Technologists.

A balanced curriculum of general didactic and clinical courses offers the student an opportunity for cultural development as well as occupational competence. Clinical instruction is given at Medical Center Hospital and Mother Frances Hospital under the direction of radiologists, technical directors of the radiology departments and clinical instructors. The didactic courses will be held on the Tyler Junior College campus.

Upon completion of the program the student should be able to make application of the material in the darkroom, the radiographic rooms and the fluoroscopic rooms. The duration of the program will be a minimum of 24 months. A minimum grade of 75 will be required on all radiologic technology courses.

Since enrollment in this program is necessarily limited, those applying for admission must make their application directly to the director of this program.

A radiologic technology student cannot graduate unless he maintains an over-all C average and has a minimum of a C in each radiologic technology course.

XRT 111 Nursing Procedures (1-0) A course designed to acquaint the student with nursing procedures and techniques used in the general care of the patient, emphasis is on the role of the radiologic technologist in various nursing situations.

XRT 112 Clinical Practice I (2-25) The radiologists, technical directors of the radiology departments and clinical instructors will supervise students in the use and care of all equipment. The course consists of film critiques, sessions on departmental routines and additional study in any area of specialization in accordance with the needs of the individual student.

XRT 113 Radiologic Technology I (3-0) A general introduction to radiologic technology, this course covers orientation and elementary radiation protection, professional ethics, basic darkroom practices, principles of radiographic positioning and exposure and common radiographic procedures using contrast media.

XRT 113A Radiologic Physics (3-0) A course presenting a general review of basic mathematics, mechanics, structure of matter and magnetism, this course also gives an introduction to electricity, electromagnetism and electric motors and generators.

XRT 113B Anatomy and Physiology (3-0) This course presents to students basic instruction of the various systems, structures and organs of the body and their functions and enables them to interpret accurately requests for x-ray examinations, to properly position the part to be radiographed, to recognize the structures and organs visualized and to understand the normal functions of organs as a basis for certain X-ray examinations.

XRT 123 Radiologic Physics II (3-0) A continuation of Radiologic Physics I. The course is designed to present the fundamentals of radiation physics and the basic principles underlying the operation of X-ray equipment and auxiliary devices.

XRT 123A Radiologic Technology II (3-0) A continuation of Radiologic Technology I and including pediatric radiology.

XRT 123B Basic Related Science I (3-0) This course is designed to present instruction in darkroom chemistry and technique, medical terminology and topographic anatomy.

XRT 123C Clinical Practice II (3-25) A continuation of Clinical Practice I.

XRT 114S Clinical Practice III (3-37) A continuation of Clinical Practice II.

XRT 124S Clinical Practice IV (3-37) A continuation of Clinical Practice III.

XRT 213 Clinical Practice V (3-25) A continuation of Clinical Practice IV with experience in the nuclear medicine laboratory.

XRT 213A Basic Related Science II (3-0) This course is designed to cover

the study of protection to patient and personnel, radiation therapy and nuclear medicine procedures.

XRT 213C Radiologic Technology III (3-0) A continuation of Radiologic Technology II, the course includes advanced study in radiographic exposure and positioning and including intraoral radiography.

XRT 223 Clinical Practice VI (3-25) A continuation of Clinical Practice V, the course includes training in radiation therapy given on an individual basis in the radiologist's private offices and experience in the special procedures department.

XRT 223A Radiologic Technology IV (3-0) This course consists of instruction dealing with equipment maintenance, administration of the radiology department and a general review.

XRT 223B Basic Related Science III (3-0) This course is designed to cover the study of special procedures and medical-surgical diseases.

XRT 214S Clinical Practice VII (3-37) A continuation of Clinical Practice VI.

XRT 224S Clinical Practice VIII (3-37) A continuation of Clinical Practice VII.

Real Estate Management 5423

Students successfully completing this program receive the Associate in Applied Science Degree.

The curriculum is designed with formal classroom study combined with case studies and actual work experience to give the student a sound educational background for a career in the real estate industry as a real estate salesman, petroleum landman, land title insurance agent, property insurance agent or a wide variety of other land-oriented careers.

The program provides an opportunity for students to complete the educational requirements for the Texas Real Estate Salesman or Broker's License and/or the Fire and Casualty Local Recording Agent's License.

REM 113 Principles of Real Estate (3-0) A general introductory course in real estate fundamentals and principles, it includes overview of licensing as real estate broker and salesman, ethics of practice, titles to and conveyancing of real estate, legal descriptions, law of agency, deeds, encumbrances and liens, distinction between personal and real property, contracts, appraisal, finance & regulations, closing procedures and real estate mathematics.

REM 113B Introduction to Land Records (3-0) A study of the history of Texas land from state ownership to private ownership including patents, land grants, public school lands, the course also covers requirements and methods of recording and maintaining public records in county offices. Prerequisite: REM 113 and DFT 123R or consent of instructor.

REM 113D Real Estate Mathematics (3-0) Course topics include mathematics and its application to real estate problems, basic arithmetic skills and review of mathematical logic, percentages, interest, time-valued money, depreciation, amortization, proration, and estimation of closing statements.

REM 113E Real Estate Marketing (3-0) The course shall include but not be limited to real estate professionalism and ethics, characteristics of successful salesmen, time management, psychology of marketing, listing procedures, advertising, negotiating and closing, financing, and the Deceptive Trade Practices-Consumer Protection Act, as amended, Section 17.01 et seq., Business & Commerce Code. Includes (3) classroom hours instruction in federal, state and local laws governing housing discrimination and community re-investment.

REM 123 Real Estate Law (3-0) This course is a study of real estate law and procedure involving real property acquisition, ownership and transfer including legal concepts of real estate, land description, real property rights and estates in land, contracts, conveyances, encumbrances, foreclosures, recording procedures and evidence of titles.

REM 123A Real Estate Finance (3-0) This course is an analysis of the procedures in financing and mathematics of real estate finance, where and how to obtain funds, security devices such as mortgages and related instruments, return of mortgage and equity capital, as well as problems, policies, and risk involved in financing various types of real property. Applicable towards real estate broker's license.

REM 123B Real Estate Appraisal I (3-0) Course is designed to develop an understanding of the principles and methods used in estimating the value of real property. Should be taken concurrently with DFT 123R.

REM 213 Methods in Title Investigation (2-2) The course is a discussion of county offices responsible for maintenance of records pertaining to real estate and actual practice using records to acquire ownership information.
Prerequisite: REM 113B or consent of instructor.

REM 213C-223C Real Estate Internship (1-20) Internship is open only to students enrolled in the real estate management program. This provides work experience in the real estate office, fire and casualty insurance office, abstract and title insurance office and the petroleum land management office. The student, the employer and the program coordinator develop an individual program for each student. The student is evaluated by both the employer and the program coordinator. Students employed full time in the field of real estate may not enroll in the internship courses.

REM 213B Fire and Casualty I (3-0) Course topics include types of fire and casualty insurance, fire insurance, legal liability and automobile insurance, general liability, homeowners and farmowners, workmen's compensation, crime, fidelity and surety, commercial multiple peril, inland marine, miscellaneous lines of insurance and fundamentals of rating.

REM 213D Real Estate Appraisal II (2-2) The student will learn the application of the theories and principles learned in REM 123B using appraisal report forms. The market data, cost and income approach will be used with concentration in the application area on the single family residence.
Prerequisite: REM 123B, and DFT 123R or consent of the instructor.

REM 213E Land Title Problems (2-2) Students will be assigned tracts of land to determine surface, royalty and mineral ownership. Defects in ownership will be corrected by obtaining corrective instruments, affidavits, etc.
Prerequisite: REM 213 or consent of the instructor.

REM 213F Introductory to Boundary Locations (3-0) A brief study of the disposition of the public domain in Texas, course topics include early surveying of land grants including locating early surveys and vacancies. A study of the types of property descriptions, validity of descriptions and locating boundary lines and corners is also covered.

REM 223A Real Estate Title Insurance, Abstract, Escrow and Closing Procedure (3-0) A case method presentation in escrow procedure including actual processing of sale escrows is included as well as familiarization and drawing of documents, processing of and closing the escrow, prorations and details appurtenant to efficient escrow processing.

REM 223B Real Estate Brokerage (3-0) Real Estate Brokerage includes but will not be limited to law of the state agency, planning and organization, operational policies and procedures, recruiting, selection and training of personnel, records and control and real estate firm analysis and expansion criteria.

REM 223D Fire Casualty II (3-0) A continuation of REM 213B. REM 213B and REM 223D applicable toward the Fire and Casualty Local Recording Agent License.
Prerequisite: REM 213B.

REM 223E Contracts and Negotiable Instruments (3-0) Development of land contracts and negotiable instruments that are used in mineral leasing transactions as well as record keep-

ing essential to contract performance are studied.

Recreation Leadership Tennis Teaching 9621

This program provides a two-year course to train students in teaching tennis, planning programs for tennis facilities, merchandising and operating pro shops and care and maintenance of tennis facilities. In addition, students are trained and prepared for certification testing upon completion of the course.

Students spend approximately 15 hours a week working in tennis-related programs. Programs include lab work, on-campus tennis clinics, pro shops, private clubs, municipal tennis programs and the functions of team coaching. Training aids used in the tennis program are books, training films, video tape recorders, audio tape recorders, ball machines, stringing equipment and field trips to various tennis and sport facilities.

Upon graduation from this program, one receives an Associate in Applied Science Degree in recreation with a major in tennis.

REC 112L Tennis Teaching Lab I (0-15) A basic study of on court teaching skills will be practiced. An emphasis will be placed on individual lessons.

REC 113 Individual Instruction (3-0) A study of the uniqueness of the individual in tennis will be made. Detailed information on reasons and objectives explaining the participation of the individual in tennis will be discussed. The understanding of procedure and application for private instruction and learning theory of the individual will be researched.

REC 113S Tennis Seminar I (3-0) To properly acquaint students with the methods and materials to coach tennis, the course includes principles for becoming a professional tennis coach, proper coaching methods, fundamentals of tennis and the philosophy of tennis.

REC 114S Tennis Camp Lab (1-39) This course is assignment to a position at a summer tennis camp. Student will be responsible for a journal of activities and an evaluation of the work assignment. Summer tennis camp will be on Tyler Junior College campus.

REC 122L Tennis Teaching Lab II (0-15) An introduction to technical equipment as teaching aids will be presented. Includes ball machines, video recorder, audio recorder and also tennis racquet stringing equipment. A continuation of on court skills will be practiced.

REC 123A Scientific Approach to Tennis Teaching (3-0) The game of tennis will be analyzed from a scientific viewpoint. Information will be based on recent updated information by research studies of prominent tennis physicists and biomechanics.

REC 123G Group Dynamics of Tennis Instruction (3-0) This course will define basic recreation and its need in today's society. A survey of basic terminology, skills and rules for selected lifetime sports will be covered. An emphasis will also be placed on sport medicine, ranging from injury prevention exercises to diet and performance.

REC 123S Tennis Seminar II (3-0) A study of planning, organizing, and conducting activities for tennis programs, the course includes promotion, special events, clinics, junior development, ladies day, ladders, tournaments, leagues and social events as well as the construction of the overall program.

REC 213C Tennis Camp and Club Management (3-0) The process of managing by planning, directing, coordinating and controlling of tennis facilities, employees and participants is studied. Emphasis is on knowledge and understanding of the organization, administration and promotion of tennis. The operation and role of the director will be demonstrated and evaluated.

REC 213L Tennis Teaching Lab III (0-15) An emphasis will be placed on the organization, planning and performance of group lessons. A continuation of court skills will be practiced as

well as off-court procedures of the tennis professional.

REC 213S Tennis Seminar III (3-0) A study of essential elements and basic principles involved in the organization, supervision and operation of a tennis pro-shop, the course also features evaluation of various types of pro-shops will be made.

REC 222L Tennis Teaching Lab IV (0-15) A survey of tennis management at various clubs will be made. Also the student will be challenged to contribute to creative and innovative lessons and programming. A continuation of court skills will be practiced as well as off court procedures of the tennis professional.

REC 223E Contemporary Concepts in Tennis Instruction (3-0) Further training of tennis instruction will be conducted by a study of a selected reading list of tennis authors. The comparison and analysis of the similarities and differences of teaching and coaching styles and methodologies of the published works will be discussed.

REC 223S Tennis Seminar IV (3-0) The course will provide insight and knowledge in the field of court construction and maintenance. A survey will be conducted dealing with the design and lay-out of various tennis facilities.

Respiratory Therapy 8025

Respiratory therapy offers two programs which prepare individuals for an allied health speciality in clinical care and management of respiratory disorders. The 12-month program leads to a Certificate of Proficiency and qualifies the graduate to apply for the Certified Respiratory Therapy Technician board examination. The 24-month program graduates a student with an Associate in Applied Science Degree and qualifies the individual to apply for the Registered Respiratory Therapist board examination.

The curriculum for the certificate program is included in the Registry Curriculum which is expanded with academic courses. These didactic courses include biology, chemistry, mathematics and English. Respiratory therapy courses consist of classroom, laboratory and supervised hospital experience. The Certification and Registry programs have full accreditation from the Joint Review Committee on Respiratory Therapy Education (JRCRTE).

Since enrollment in this program is limited, those applying for admission must make application with the program coordinator.

Persons who are certified respiratory technicians (CRTT) have an alternate means of becoming Registry eligible. A CRTT can obtain 62 credit hours to include courses in anatomy, physiology, chemistry, biology, microbiology, math and physics, then become eligible to sit the Registry examination. The courses can be taken so as to also obtain an Associate Degree. See the program coordinator for details. Selected respiratory courses are periodically offered in the evening.

A respiratory therapy student cannot graduate unless he/she maintains an overall C average and has a minimum of a C in every respiratory therapy technology course.

RT 112 Cardiopulmonary Anatomy and Physiology I (2-1) This course is an introduction to the structure and function of the heart and pulmonary organ systems.

RT 113 Basic Skills (3-0) Basic scientific concepts used in respiratory therapy are covered.

RT 113S Equipment Instrumentation (8-2) An advanced study of equipment characteristics and operating techniques, the course is also a comparison of respiratory therapy equipment on the basis of design and clinical function.
Prerequisite: RT 124 or permission of instructor.

RT 114 Clinical Orientation (3-9) This course is an introduction to respiratory therapy and health care.

RT 114A Technology I (3-4) Topics include basic techniques, procedures and equipment used in respiratory therapy.

RT 121 Pediatric Care (1-0) The course is a study of specialized techniques,

procedures, and equipment used in the treatment and care of infants and children.

RT 122 Pharmacology I (2-0) Drugs directly related to respiratory therapy are studied.

RT 123 Clinical Laboratory (0-12) This course covers the application of basic respiratory therapy to patient care within the hospital environment.
Prerequisite: RT 114 and with a C or better.

RT 123A Pathology (3-0) Course topics include an introduction to cardiopulmonary diseases, their etiology, pathophysiology, complications, occurrence, clinical manifestations, treatment and prevention.

RT 124 Technology II (3-3) A continued study of respiratory therapy equipment behavior and care techniques from RT 114A.

RT 114S Clinical Experience (0-40) The practice of respiratory techniques in the hospital environment, with an emphasis given to allow the student a more independent role in his function as a technician, this course is only for students wishing to complete the one-year Certification Program.
Prerequisite: Completion of all freshman fall and spring semesters with "C" or better in respiratory therapy courses.

RT 124S Clinical Experience II (0-40) A continuation of RT 114S.
Prerequisite: RT 114S.

RT 123S Cardiopulmonary Anatomy & Physiology II (8-0) This course is an intensive study of structure and function of the circulatory, lung and renal systems as they apply to respiratory therapy.

RT 213 Clinical Practice I (0-12) Applied respiratory therapy and exposure to cardiopulmonary medicine in the clinical setting are covered and rotations are provided through specialized units including surgery and anesthesiology, cardiopulmonary labs, intensive care and neonatal intensive care.
Prerequisite: Completion of all first year Associate Degree requirements with a G.P.A. of 2.0 or better.

RT 213A Pharmacology II (3-0) An advanced study of drugs used within and related to the practice of respiratory therapy.
Prerequisite: RT 122.

RT 214 Technology and Care (3-3) A continuation of RT 113S.
Prerequisite: RT 113S with a C or better.

RT 223 Clinical Practice II (0-12) The course involves continued exposure to cardiopulmonary medicine and respiratory care techniques.

RT 223A Applied Cardiopulmonary Pathology (3-0) This course is an in-depth study of diseases involving and related to the cardiopulmonary system and its function.
Prerequisite: RT 123A with a C or better.

RT 223B Management and Education (3-0) The course is divided into two sections: managerial aspects of respiratory therapy and topics in respiratory therapy education including such areas as inservice education, behavioral objectives, text construction and teaching strategies.

RT 212S Seminary and Care Planning (6-0) Patient case studies are presented in a panel discussion format as are practical aspects in the formulation of a working respiratory care plan.
Prerequisite: enrollment in RT 213S.

RT 213S Clinical Practicum I (0-24) The course covers clinical practice of respiratory therapy and related aspects of nursing arts and experience as a practicing technician plus correlation with advanced clinical and technological concepts.

RT 224S Clinical Practicum II (0-40) A continuation of RT 213S.

Sociology

A student majoring in sociology should see a Tyler Junior College counselor or a faculty advisor for help in completing a course plan.

SOC 213 Introduction to Sociology (3-0) The course covers basic con-

cepts and principles of social behavior, relationships of culture and social interactions to human behavior and analysis of existing group structures and social organizations. 220801

SOC 213A Marriage and Family (3-0) An introduction to the study of marriage and family life, the course analyzes the changing lifestyles and social relationships involved in courtship and dating and some of the problems in interpersonal adjustments in marriage. It covers contemporary marital problems, divorces and remarriages. 220809

SOC 223 Social Problems (3-0) This course is an application of sociological concepts and methods to the analysis of current social problems which include juvenile delinquency, adult offenders, alcoholics, suicides, family disorganizations and crimes in the community. 220802

Speech/Theatre

A student majoring in speech or theatre should see a Tyler Junior College counselor or faculty advisor for help in completing a course plan.

SPEECH COURSES

SPH 111F Forensics (0-3) A laboratory course for students interested in speech and theatre activities. Various events of festivals and tournaments are discussed. Students are trained and given opportunity for participation in these contests.

SPH 113C Voice and Diction and Phonetics (3-0) The basic principles of diction, including physiological description and practice in the use of the International Phonetic Alphabet. Intensive practical experience in voice development, and special activities to meet individual vocal needs and professional objectives. Counts toward both a Speech and Theatre major. Offered every semester.

SPH 123A Oral Interpretation (3-0) Theory in understanding and interpreting the printed page plus practice in the presentation of the various literary forms. Counts toward both a Speech and Theatre major. Offered every semester.

SPH 123D Introduction to Radio and TV (3-2) Survey of the American System of Radio and Television Broadcasting, including study of its personnel, equipment, terms, station and network organization and control. Laboratory activities in writing, acting, directing, producing, announcing, and operating equipment for various types of radio and television programs. Field trips to radio, recording and television facilities. Offered every semester.

SPH 111 Parliamentary Procedure (1-0) This course covers correct procedure in the forming of an organization and how to conduct meetings properly. Offered as requested.

SPH 113 Public Speaking (3-0) Principles and types of speeches and the importance of listening are discussed. Practice in planning, organizing and delivering general speeches is provided for the student to improve informative, persuasive and entertainment skills. Offered every spring.

SPH 113A Introduction to Speech Communication (3-0) This introductory course emphasizes the importance of both listening and speaking and helps the student to recognize the elements necessary for good communication in personal, small group and public speaking. Theory, examples and participation in various situations are used to improve the student's ability to communicate. Offered every semester.

SPH 113B Speech for Prospective Teachers (3-0) Improvement in the prospective classroom teacher's command of the basics of good speech and understanding of the practical application of speech in teaching students. Speech 113A and Speech 113B cannot both be counted. Offered as requested.

SPH 223A Business and Professional Speaking (3-0) The study of special types and techniques of speeches most common to business and

professional people. Theory and practice is given in business speech situations, personal conferences, job interviews, oral reports, sales talks and occasional speeches. Offered every semester.

SPH 223B Introduction to Speech Correction and Audiology (3-0) An introduction to the study of the types of disorders in speech and hearing. The causes, diagnosis and therapy used for correction are discussed. Offered every spring.

SPH 213I Interpersonal Communication (3-0) Theory and practice in person-to-person interaction, focus on development, maintenance and termination of relationships. Theory and application of listening skills are practiced. Offered every spring.

THEATRE COURSES

THE 123B Fundamentals of Acting (2-2) (Formerly Speech 123B) An introductory course in the theory and practice of acting. Practical experience in development of vocal and physical techniques for actors.

THE 123C Introduction to Technical Production (3-2) (Formerly Speech 123C Basic Theatre Practice) Study and practice in the visual arts of the theatre, an introduction to stagecraft and lighting. Three hours lecture per week and two hours laboratory per week. Additional work on technical crews provides practical experience. Offered every other fall semester.

THE 123M Makeup (3-0) (Formerly Speech 123M) The principles of straight and character makeup. Intensive practical application and experience in stage productions are provided for the student. Offered every other spring semester.

THE 213A Introduction to the Theatre (3-0) (Formerly Speech 213A) An introductory study of the theatre arts, including an elementary study of play analysis, playwriting and dramatic criticism techniques of modern theatre practice in acting, directing, scene design and lighting. Field trips and guest lecturers provided. Offered every other fall semester.

THE 213B Acting II (Formerly Speech 213B) Further study in the theory and practice of acting with practical experience in problems of creating characterization. Emphasis on developing vocal and physical skills. Prerequisite: THE 123B. Offered every spring.

THE 213H History of the Theatre (3-0) (Formerly Speech 223H) The course spans the development of theatre arts from Greek times through the Renaissance. Offered as requested.

THE 223H History of the Theatre (3-0) (Formerly Speech 213H) Development of theatre arts from seventeenth century through modern times. Offered as requested.

THE 113W-123W Theatre Workshop (3-0) (Formerly Speech 113W) A laboratory course in theatre with emphasis on techniques and procedures in mounting productions. All phases of theatre are experienced through actual participation, culminating in a production. Offered every semester.

Surveying 8435

Students successfully completing this program receive the Associate in Applied Science Degree.

Surveying at Tyler Junior College was initiated at the request of land surveyors in the East Texas area. The courses offered are designed to teach the students the basic elements of surveying theory and to afford them enough supervised practice to enable them, in two years time, to become useful apprentices to this industry. Land surveying as such is emphasized and includes history, dendrology, evaluating property corners, measuring boundaries, describing land by metes and bounds, calculating land areas and using the Texas Coordinate System. Other phases of surveying taught are mapping and route surveying.

SUR 113 Introduction to Surveying (3-0) The course covers definition of surveying, importance and brief his-

tory of types of surveying and present status of the profession, the theory of measurements and errors, to include definitions of mistakes and errors, rounding off figures, significant figures, accuracy and precision and elementary basic methods of surveying computations. Must be taken concurrently with SUR 113A.

SUR 113A Surveying Measurements Practice (2-5) Course topics include use and care of the 100-foot steel tape and engineer's level, elementary field exercises in pacing and chaining (horizontal linear distance measuring) and leveling (vertical distance measuring), instructions in sighting, signaling, and reading and setting verniers and proper procedures of taking field data and recording same in surveying field notebooks using the Reinhardt system of lettering. Must be taken concurrently with SUR 113.

SUR 123 Land Surveying (3-0) A brief land history of Texas includes the disposition of the public domain, surveying in Texas, surveying the public lands of the United States, more advanced methods of computations include the use of basic trigonometry functions in calculating land areas by the "double meridian distance" method, and also the use of basic analytic geometry in calculating land areas by coordinates. Must be taken concurrently with SUR 123A.

SUR 123A Land Surveying Practice (2-5) This course includes field exercises using the transit and the theodolite, establishing and referencing monuments, turning and reading horizontal and vertical angles, the theory of the compass and magnetic declination, traversing using bearings, azimuths and deflection angles and recording in surveying field notebooks. Must be taken concurrently with SUR 123.

SUR 213 Topographic Surveying and Mapping (3-0) Definition and uses of the plane table and associated methods to include traversing, radiation, intersection, resection, mapping and contouring, map projections, the Texas Coordinate System, basic field astronomy, and determination of meridian. Must be taken concurrently with SUR 213A.

SUR 213A Field Mapping Practice (2-5) Topics include the actual accomplishment of planimetric and topographic maps in the field, making Polaris observations to establish true meridian, brief units on dendrology and photogrammetry and consideration of the requirements of subdivisions and the platting and filing of same. Must be taken concurrently with SUR 213.

SUR 223 Route Surveying (3-0) This course covers transportation systems that include office plans and field and aerial requirements, theory and computations involved in solar observations, computations of horizontal circular curves and vertical parabolic curves, grades and cross-sections, plan-profile sheets and earthwork estimates. Must be taken concurrently with SUR 223A.

SUR 223A Route Surveying Practice (1-4) Field exercises include the reconnaissance survey, preliminary survey and location survey, the actual making of solar observations, centerline traverse and profile levels, right angle locations and cross-section construction stake setting, staking horizontal curves and calculating cuts, fills and earthwork. Must be taken concurrently with SUR 223.

SUR 223B Legal Principles of Boundary Location (3-0) Systems used to describe property, ownership and transfer of real property, locating sequence and simultaneous conveyances, reversion rights, riparian and littoral ownerships, the surveyor in court and Texas land law questions and answers are course topics.

Vocational Nursing (LVN) 7821

Vocational nursing offers a curriculum leading to a Certificate of Proficiency. The curriculum is designed to prepare qualified individuals to give direct nursing care to patients of all age groups and to promote

development of the individual as a responsible member of society. The graduates of this program are prepared for nursing practice in hospitals, clinics, nursing homes and other health agencies.

The curriculum is one year in length and students who complete the course successfully are eligible for the examinations by the state board. Only students who have completed a course of training approved by the State Board of Vocational Nursing Examiners, and who have successfully passed the state licensing examination are authorized to practice as licensed vocational nurses.

Since enrollment in this program is necessarily limited, those applying for admission must make their application directly to the coordinator of this program.

The Admissions Committee selects the class on the basis of high school records, test results and personal interview.

A vocational nursing student cannot graduate unless he/she maintains a minimum of a C average in each vocational nursing course.

Students who do not successfully complete one or more prerequisite courses in any semester may apply to repeat those courses the next time they are offered. Any student who has successfully completed one or two semesters and withdraws from the program and after being out of the program for three semesters or more (counting the semester they withdrew) and wishes to re-enter the program, must successfully pass (with a 76 percent or better) the most current final examination for each nursing course completed prior to withdrawal. After two years, students who withdraw will have the option of taking the most current final examination for courses previously completed and score 76 percent or better on each final examination or repeat all courses.

Readmission to the program depends on available space.

LVN 111 Personal & Vocational Adjustments I This course is designed to introduce the student to nursing and those concepts to be used in personal growth and patient interaction. Personal and mental hygiene, ethics, legal aspects, licensure and communication skills are introduced. The theories of the patient's total health needs using the nursing process is introduced. (25 clock hours)

LVN 111A Nutrition A foundation for basic nutrition and nutrients for maintaining health, the course is an introduction to basic diet therapy. Specific diet therapy will be integrated in related illness taught in the disease process. (25 clock hours)

LVN 111B Mental Health & Mental Illness Basic principles of nursing care of the patient with maladaptive psychological responses are covered. Using the nursing process, emphasis is placed on communication skills and other activities which contribute to mental health/mental illness during the life span. (30 clock hours)

LVN 111C Clinical Experience I Actual clinical experience provides opportunity for improving skills in a clinical area. Supervised by the Vocational Nurse instructor, the student is familiarized with nursing skills and techniques while incorporating the nursing process in giving patient care. (64 clock hours)

LVN 111D Disease Control & Prevention Basic microbiology from the standpoint of cause, symptom and prevention of disease, disease control and community health and resources are covered. (10 clock hours)

LVN 113 Anatomy A study of the basic anatomical and physiological principles of the human anatomy system. (50 clock hours)

LVN 113A Pharmacology This course is a study of the English, Metric and Apothecary systems of measures as related to the calculations of dosages with an introduction to basic classification of drugs. Specific drug therapy to be integrated in Medical-Surgical, Maternity, Newborn and Pediatric nursing. (50 clock hours)

LVN 113B Maternity and Newborn Nursing The nursing process is further developed as it applies to the basic needs of the expanding family. Emphasis is placed on the bio-psychosocial aspects in giving care to the

family. The principles of nutrition, pharmacology and health teaching are integrated as it effects the patients' needs during the pre-natal and post-partum periods. (50 clock hours)

LVN 113S Fundamental Skills This course is designed to provide the student with basic fundamentals of nursing skills and techniques using the nursing process as a framework for nursing action to formulate and maintain individualized nursing care. (176 clock hours)

LVN 121A First Aid This course is designed to introduce the student to basic principles of emergency nursing measures. CPR included. (15 clock hours)
Prerequisite: All fall semester courses.

LVN 121B Geriatrics Introduction to normal physical changes due to the aging process, conditions and nursing care are incorporated in Medical-Surgical Nursing. (10 clock hours)
Prerequisites: All fall semester courses.

LVN 122 Pediatric Nursing, Normal Growth and Development The nursing process is applied to the nursing of children with childhood diseases and diseases specific to children with the study of normal growth and development and the effects of disease on growth and development. Other topics are calculation of pediatric dosages, incorporation of drug and diet therapy. (40 clock hours)
Prerequisites: All fall semester courses.

LVN 123 Medical-Surgical Nursing I Continuing the nursing process as it applies to the adult patient requiring medical or surgical intervention, course emphasis is placed on selected physiologic maladaptation. Incorporation of specific drug and diet therapy. (54 clock hours)
Prerequisites: All fall semester courses.

LVN 128 Clinical Experience II This course is designed to provide the learner with actual clinical learning experiences using the nursing process in medical-surgical nursing. Supervised by the Vocational Nursing instructor, opportunity is provided to function as a member of the health care team and the student is familiarized further with the nursing responsibilities of a Licensed Vocational Nurse. (584 clock hours)
Prerequisites: All fall semester courses.

LVN 134 Medical-Surgical and Personal Vocational Adjustments II Continuing the nursing process as it applies to the adult patient with emphasis on selected physiologic maladaptation, the principles of nutrition, pharmacology and rehabilitation are integrated in meeting the needs of the patient. (66 clock hours)
Prerequisites: All fall and spring semester courses.

LVN 139 Clinical Experience III Clinical experience includes the further development of the nursing process as it applies to the bio-psycho-social aspects of the patient in the clinical area. A more concentrated clinical experience is provided as the student practices the nursing process, advanced skills and concepts in the clinical area requirements to be expected on accepting employment. (549 clock hours)
Prerequisites: All fall and spring semester hours.

Welding 6245

Welding is a two year post-secondary program designed to qualify the student for entry level code welding for industry.

Upon successful completion of the program the student will receive an Associate in Applied Science Degree.

WLD 113 Physical Metallurgy (3-0) This course introduces the student to refining processes of metals and identification of metals. Theory of alloys, heat treating and forming metals into final shapes are also included in the course.

WLD 116 Introduction to Welding Procedures (1-11) This course is designed to provide entry level skills of

production welding. Instruction includes use of tools, equipment maintenance and practice of producing commercial quality welds. Must be taken concurrently with WLD 113, Physical Metallurgy.

WLD 123 Welding Principles I (3-0) This theory course is designed to introduce the student to welding symbols, layout, and calculations used in welding procedures.

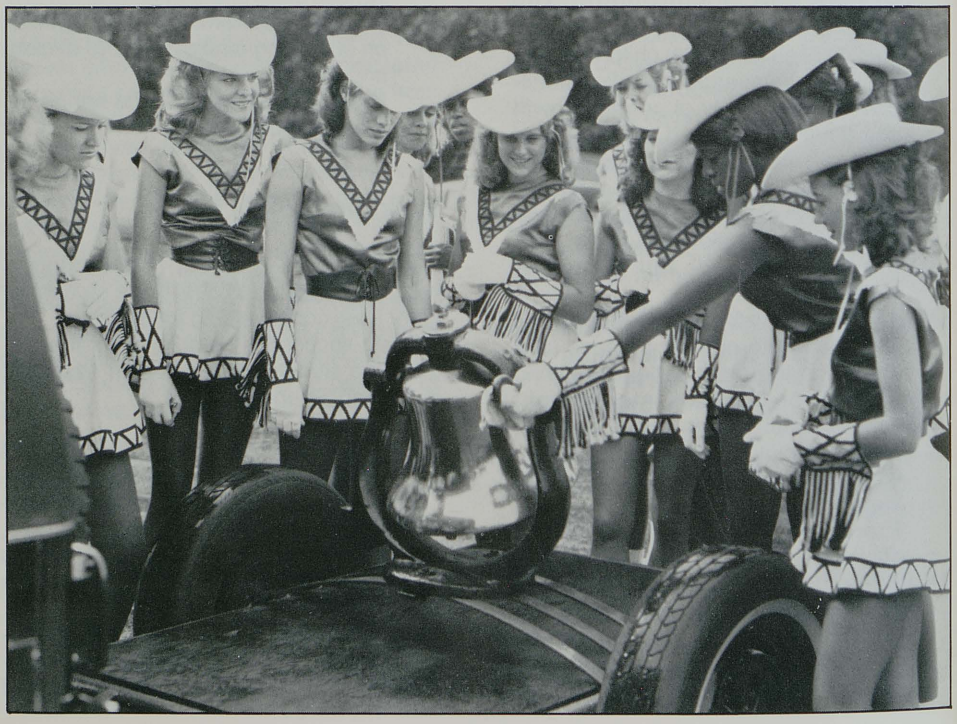
WLD 126 Advance Welding Procedures (1-11) This course is designed to pro- vertical position. The procedures of cutting and welding same and different size pipe together are also presented.
Prerequisite: WLD 126, Advanced Welding Procedures, or be able to pass a test equal to the exit level of WLD 126. Must be taken concurrently with WLD 213.

WLD 223 Specialized Welding Techniques (3-0) This course is an in-depth study of the techniques of using MIG and TIG welding procedures and the welding of alloy metals.

WLD 226 Specialized Welding Procedures (1-11) An advanced level of welding procedures with MIG and TIG, and other high level welding practices, the course coverage also includes welding of alloy metals and metals other than carbon steel metal. vide advanced skills in oxyacetylene, arc, shielded metal arc, gas metal arc and gas tungsten arc welding on fillet and grooved welds in all positions on carbon steel place metal.
Prerequisite: WLD 116, Introduction to Welding Procedures, or be able to pass a welding test equal to exit level of WLD 116 or consent of the instructor. Must be taken concurrently with WLD 123, Welding Principles I.

WLD 213 Welding Principles II (3-0) An advanced study of welding layout, welding codes, welding gases, welding equipment and welding supplies, this course also covers the principles of MIG and TIG welding procedures.

WLD 216 Pipe Welding (1-11) This course covers code quality welds on carbon steel pipe placed in the horizontal position, up and down hill position and



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Ph.D., The University of Texas at Austin

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Ed. D., University of Wyoming

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M.A., Peabody College

Johnnye Kennedy ..... Director, Library Services

Marshella Kersh ..... Computer Science

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M.M., Southern Methodist University

Jamon Kirby ..... Physical Education/Tennis
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B.S., West Chester State College

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Nancy Laird ..... Physical Education
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M.A., University of Houston
Ed. D., University of Houston

Rick Langley ..... Physical Education/Assistant Football Coach
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Rebecca Laughlin ..... Psychology/Sociology
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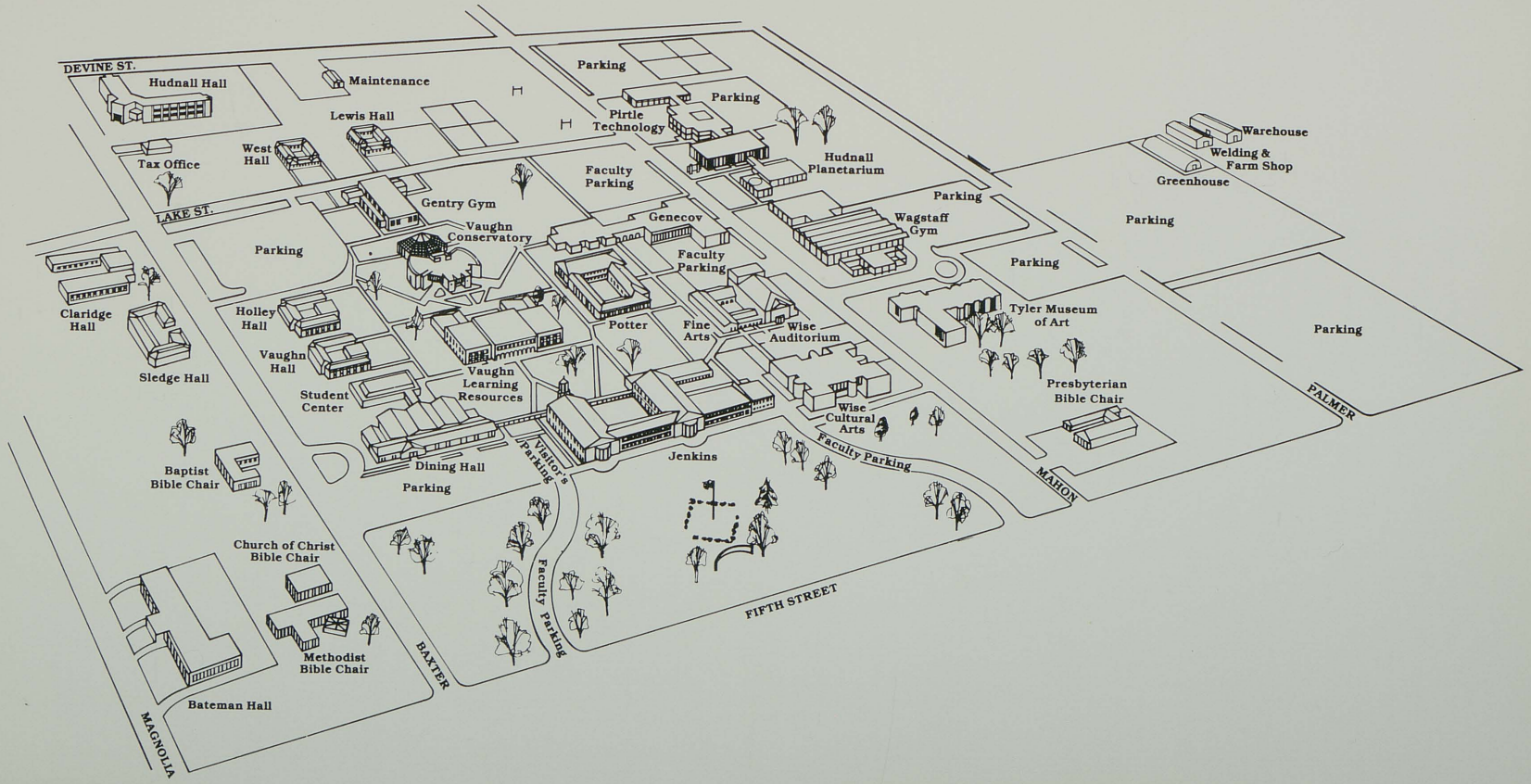
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Parking
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Pirtle Technology
Lewis Hall
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West Hall
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Welding & Farm Shop
Greenhouse
LAKE ST.
Gentry Gym
Vaughn Conservatory
Genecov
Wagstaff Gym
Parking
Parking
Parking
Faculty Parking
Parking
Claridge Hall
Holley Hall
Potter
Fine Arts
Wise Auditorium
Tyler Museum of Art
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Vaughn Hall
Sledge Hall
Vaughn Learning Resources
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FALMER
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